LOUISIANA WILDLIFE AND FISHERIES COMMISSION

MINUTES

FEBRUARY 5, 2004

BILL A. BUSBICE, JR. CHAIRMAN

BATON ROUGE, LOUISIANA

The following constitute minutes of the Commission Meeting and are not a verbatim transcript of the proceedings.

Tapes of the meetings are kept at the Louisiana Department of Wildlife and Fisheries

2000 Quail Drive

Baton Rouge, Louisiana 70808

For more information, call (225) 765-2806

AGENDA

LOUISIANA WILDLIFE AND FISHERIES COMMISSION BATON ROUGE, LOUISIANA FEBRUARY 5, 2004

		Page
1.	Roll Call	1
2.	Approval of Minutes of January 8, 2004	1
3.	Commission Special Announcements	1
4.	Recognition of Angela Capella for Receiving Outstanding Service to Informal Science Education Award by Louisiana Science Teachers Association	1
5.	Enforcement & Aviation Reports/January	. 2
6.	Notice of Intent - Shark Harvest Regulations	3
7.	Presentation of Stock Assessments for Black Drum, Striped Mullet, Southern Flounder and Sheepshead	10
8.	Derelict Crab Trap Removal Program Presentation	11
9.	Hunter Safety Report	13
10.	Public Information Update Presentation	13
11.	Set June 2004 Meeting Date	14
12.	Public Comments	14
13.	Adjournment	14

MINUTES OF THE MEETING

OF

LOUISIANA WILDLIFE AND FISHERIES COMMISSION

Thursday, February 5, 2004

Chairman Bill Busbice, Jr. presiding.

Billy Broussard Lee Felterman Henry Mouton Jerry Stone

Secretary Dwight Landreneau was also present.

Commissioners Terry Denmon and Wayne Sagrera were absent from the meeting.

Chairman Busbice called for a motion for approval of the January 8, 2004 Commission Minutes. A motion for approval was made by Commissioner Mouton and seconded by Commissioner Felterman. The motion passed with no opposition.

Under Commission Special Announcements for this month, Commissioner Mouton stated he was hearing from residents of Mississippi they want to come fish in the Chandeleurs at a greatly reduced cost or at no cost at all. He felt if they did not want to pay for a Louisiana license, they should stay in Mississippi. Also Commissioner Mouton requested the Commission "stand tall" and make them pay the fee if this issue was presented.

Chairman Busbice then introduced Mr. Dwight Landreneau as being the recently appointed Secretary for the Department of Wildlife and Fisheries. Secretary Landreneau stated it was a pleasure to serve as Secretary for the Department and looked forward to working with the Commission in facing the natural resource challenges that everyone helps to protect and are used by the people of this State. Secretary Landreneau commented that Governor Blanco is interested in the stewardship of the natural resources and will be involved with the Department. He then stated he looks forward to working with the Commission over the next four years to make sure the needs of the public are met.

Recognition of Angela Capella for Receiving Outstanding Service to Informal Science Education Award by Louisiana Science Teachers Association was handled by Mr. Tommy Prickett. Ms. Angela Capella, an educator from Region 3, works at the Booker Fowler Fish Hatchery and has developed a public visitor center and program there. These programs are directed at young people particularly in

the education system. Recently Ms. Capella was given an award as the Outstanding Informal Educator in the State of Louisiana by the Louisiana Science Teachers Association. Mr. Prickett then noted that Ms. Capella is the President of the Louisiana Environmental Educators Association and the Department's representative on the Southern Association of Marine Educators. One program Ms. Capella has developed was raising paddlefish in the classroom which helps the teachers as it counts toward part of a child's curriculum. Mr. Prickett then presented a plaque to Ms. Capella.

Chairman Busbice suggested to his fellow Commissioners they should visit the Booker Fowler Fish Hatchery and felt it was a good place for those interested in bass fishing to go to. Commissioner Felterman agreed that it was a great place to visit.

The Monthly Law Enforcement Report for January was given by Major Keith LaCaze. The following numbers were issued during January.

Region I - Minden - 100 citations and 10 warnings.

Region II - Monroe - 62 citations, 4 warnings and 5 public assists.

Region III - Alexandria - 74 citations and 1 warning.

Region IV - Ferriday - 64 citations and 8 public assists.

Region V - Lake Charles - 105 citations, 1 warning and 2 public assists.

Region VI - Opelousas - 118 citations and 19 warnings.

Region VII - Baton Rouge - 142 citations, 6 warnings and 6 public assists.

Region VIII - New Orleans - 222 citations, 24 warnings and 1 public assist.

Region IX - Schriever - 162 citations, 24 warnings and 4 public assists.

Oyster Strike Force - 34 citations.

Seafood Investigation Unit - 19 citations.

SWEP - 26 citations.

Refuge Patrol - 35 citations and 7 public assists.

The grand total of citations issued statewide for the month of January was 1,049. Also 89 warning citations were issued and agents helped in 26 public assist cases.

The aviation report for January 2004 showed enforcement pilots flew three airplanes a total of 70.7 hours for enforcement and 24.5 hours for other divisions. No citations were issued.

Major LaCaze then stated Operation Game Thief met recently to review cases from their quarterly reports as well as it being their Annual Meeting. For the quarter, rewards were paid on 16 cases which totaled \$6,500. For the year 2003, \$11,500 was paid out in rewards and the total paid out since inception is \$174,600. Copies of News Releases were given to the Commissioners. Major LaCaze then reported on one News Release where an agent and several residents rescued 6 people, not wearing PFD's, from an overturned All of those rescued survived the ordeal. Commissioner Felterman asked if more people were night hunting now or were more cases being made? Major LaCaze felt more people were night hunting now which occurs in 3 year cycles. Commissioner Felterman asked what are the basis for confiscating trucks? Major LaCaze thought they were from night hunting cases. He added that anything in connection with the violation could be seized and the courts would decide if it would be forfeited to the Department. Commissioner Stone noticed that as the night hunting cases were increasing, the drug confiscations were decreasing. Chairman Busbice again stated he would like to see a mandatory jail sentence or community service handed to those night hunting violators. He then advised Secretary Landreneau he would like to meet with both he and the Governor to talk about this issue. Commissioner Mouton told of a case where a night hunter on drugs was caught by Texas wardens and they relayed how dangerous the situation could have been.

Chairman Busbice then asked if there have been any fatalities? Major LaCaze noted during the past hunting season, there were 15 cases for hunting or discharging firearms from public roads, 92 for standing or hunting in a public road, 11 for discharging firearms or hunting from a levee, 163 for hunting or taking a deer from public road and 232 cases for failure to wear hunter orange. He then stated there was one fatality in Region 9 by someone rabbit hunting. Commissioner Mouton suggested the Chairman send a letter to District Attorney's asking that the night hunting cases be prosecuted. Chairman Busbice asked Major LaCaze to prepare a letter for his signature.

Chairman Busbice then introduced Mrs. Janice Lansing as the new Undersecretary for the Department. He also stated he looked forward to working with her in the future.

Notice of Intent - Shark Harvest Regulations began with Mr. Randy Pausina stating this proposed rule would modify the shark

rules. This modification would clarify existing language and attempted to maintain consistency with federal regulations for both commercial and recreational fishermen in Federal and State waters. These actions would ensure the regulations complement federal rules in waters beyond the Territorial Sea and to assist in identifying shark species. Commissioner Mouton asked about an overlap with the season in federal and state waters. Mr. Pausina stated that change would not become effective until the 2005 shark season, so there was still time to work out the details. Commissioner Mouton asked that he be kept informed of the situation. He then read the Therefore Be It Resolved portion of the Resolution. Commissioner Broussard made a motion to accept the Resolution and it was seconded by Commissioner Mouton. The motion passed with no opposition.

(The full text of the Resolution and Notice of Intent are made a part of the record.)

RESOLUTION

MODIFICATION OF SHARK HARVEST RULES

adopted by the Louisiana Wildlife and Fisheries Commission February 5, 2004

- WHEREAS, regulations promulgated by the Louisiana Department of Wildlife and Fisheries, Wildlife and Fisheries Commission, have provided rules for the harvesting of sharks in Louisiana's state waters, and
- WHEREAS, NMFS has adopted management measures for sharks harvested in the EEZ off of Louisiana, and
- WHEREAS, adoption of compatible regulations for Louisiana state waters where feasible would enhance effectiveness and enforceability of the regulations already in place for sharks harvested in the EEZ off of Louisiana, and
- WHEREAS, substantial fisheries for sharks do also occur in Louisiana state waters that are significant to the citizens of the State of Louisiana and thus enactment of compatible regulations may also impact those persons involved in those fisheries, and
- WHEREAS, R.S. 56:6(10), 56:326(E)(2), 56:326.1, and 56:326.3 provide authority for adoption of this rule through the Wildlife and Fisheries Commission, and
- WHEREAS, R.S. 56:325.2(A) provides that all sharks possessed by a recreational fisherman shall be maintained with head and

fins intact and shall not be skinned until set or put on shore,

- THEREFORE BE IT RESOLVED, that the Wildlife and Fisheries Commission hereby promulgates a Notice of Intent to modify existing regulations to incorporate federal law and regulation changes for sharks as part of the state regulations, clarifies the existing rule, and
- BE IT FURTHER RESOLVED, the complete copy of the Notice of Intent and proposed rule are attached to and made part of this resolution, and
- BE IT FURTHER RESOLVED, that this Rule shall become effective upon promulgation, and
- BE IT FURTHER RESOLVED, that the Secretary of the Department of Wildlife and Fisheries is authorized to take any and all necessary steps on behalf of the Commission to promulgate and effectuate this notice of intent and the final rule, including but not limited to, the filing of the fiscal and economic impact statements, the filing of the notice of intent and final rule and the preparation of reports and correspondence to other agencies of government.

Bill A. Busbice, Jr., Chairman Wildlife and Fisheries Commission

Dwight Landreneau, Secretary Department of Wildlife and Fisheries

NOTICE OF INTENT

Department of Wildlife and Fisheries Wildlife and Fisheries Commission

Sharks and Sawfishes

The Wildlife and Fisheries Commission does hereby give notice of its intent to amend a Rule, LAC 76:VII.357, modifying the existing rule. Authority for adoption of this Rule is included in R.S. 56:6(10), 56:320.2(C), 56:325.2 (A), 56:326.1, 56:326.3, and 56:326(E)(2). Said Rule is attached to and made a part of this Notice of Intent.

Title 76

WILDLIFE AND FISHERIES

Part VII. Fish and Other Aquatic Life

Chapter 3. Saltwater Sport and Commercial Fishery

§357. Sharks and Sawfishes - Harvest Regulations

- A. The following rules and regulations are established for the taking and possession of sharks (including sawfishes) (Class Elasmobranchiomorphi: Orders Hexanchiformes, Lamniformes, Squaliformes, and Rajiformes) from within or without Louisiana waters. The provisions of this Section shall not apply to shrimp or menhaden harvest, and nothing contained herein is intended or shall be construed to repeal, amend, or otherwise modify the provisions of law applicable to shrimp or menhaden fishing, except for provisions:
 - outlawing finning of shark;
- 2. requiring a <u>Commercial State Shark Permit</u> "Shark Permit" for sale, barter, trade, or exchange;

* * *

- B. For management purposes, sharks are divided into the following categories:
- 1. Small Coastal Sharks Bonnethead shark, Atlantic sharpnose shark, $\frac{1}{2}$ Bolacknose shark, $\frac{1}{2}$ Inetooth shark.
- 2. Large Coastal Sharks Great \underline{Hh} ammerhead, \underline{Ss} calloped \underline{Hh} ammerhead, \underline{Ss} mooth \underline{Hh} ammerhead, \underline{Nh} urse shark, \underline{Bh} lacktip shark, \underline{Bh} ull shark, \underline{Hl} emon shark, \underline{Ss} andbar shark, \underline{Ss} ilky shark, \underline{Ss} pinner shark, \underline{Tt} iger shark.
- 3. Pelagic Sharks Porbeagle shark, <u>Ss</u>hortfin mako, <u>Bb</u>lue shark, <u>Oceanic whitetip shark</u>, <u>Tt</u>hresher shark.
- 4. Prohibited Species Basking shark, Wwhite shark, Bbigeye sand tiger, Ssand tiger, Wwhale shark, Ssmalltooth sawfish, tlargetooth sawfish, Atlantic angel shark, Caribbean sharpnose shark, Ssmalltail shark, Bbignose shark, Caribbean reef shark, Bdusky shark, Galapagos shark, Nnarrowtooth shark, Nnight shark, Bbigeye sixgill shark, Bbigeye thresher shark, tlongfin mako, Ssevengill shark, Ssixgill shark.
- C. In addition to all other licenses and permits required by law, a valid original <u>Commercial State Shark Permit</u> "Shark Permit" shall be annually required for persons commercially taking shark from Louisiana waters and for persons selling, exchanging, or bartering sharks as required by law; the valid original permit shall be in immediate possession of the permittee while engaged in fishing for, possessing, selling, bartering, trading, or exchanging shark.
- D. No person shall purchase, sell, exchange, barter or attempt to purchase, sell, exchange, or barter any sharks in excess

of any possession limit for which a <u>state or federal</u> commercial permit was issued.

- All persons who do not possess a Commercial State Shark Permit "Shark Permit" issued by the Department of Wildlife and Fisheries, and, if applicable, a Federal Commercial Directed or Incidental Limited Shark Permit Shark Permit issued by the National Marine Fisheries Service, are limited to a recreational possession limit. All persons who do not possess a Louisiana Commercial State <u>Shark Permit "Shark Permit"</u> and, if applicable, a <u>Federal</u> <u>Commercial Directed or Incidental Limited Shark Permit</u> issued by the National Marine Fisheries Service under the Federal Fishery Management Plan for Atlantic Sharks, shall not sell, barter, trade, exchange or attempt to sell, barter, trade or exchange any sharks, or possess any sharks in excess of a recreational possession limit. Sharks taken incidental to menhaden fishing, that are retained on the vessel as part of the harvest, may be retained and sold only as a mixed part of the total harvest, and shall not be retained, held, or sold, purchased, bartered, traded, or exchanged separately. Sharks retained as a result of menhaden fishing shall not exceed legal bycatch allowances for menhaden fishing as provided for in R.S. 56:324.
- 2. Legally licensed Louisiana wholesale/retail seafood dealers, retail seafood dealers, restaurants, and retail grocers are not required to hold a <u>Commercial State Shark Permit</u> "Shark Permit" in order to purchase, possess, exchange, barter and sell any quantities of sharks, so long as they maintain records as required by R.S. 56:306.5 and R.S. 56:306.6.
- F. Sharks taken under a recreational bag limit shall not be sold, purchased, exchanged, traded, bartered, or attempted to be sold, purchased, exchanged, traded, or bartered. A person subject to a bag limit shall not possess at any time, regardless of the number of trips or the duration of a trip, any shark in excess of the recreational bag limits or less than minimum size limits as follows:
- 1. All sharks taken under a recreational bag limit within or without Louisiana waters must be at least 54 inches fork length, except that the minimum size limit does not apply for Atlantic sharpnose or bonnethead sharks.
- 2. Owners/operators of vessels other than those taking sharks in compliance with a state or federal commercial permit are restricted to No no more than one shark from either the large coastal, small coastal or pelagic group not taken under a commercial permit may be retained per vessel per trip within or without Louisiana waters, subject to the size limits described in LAC 76:VII.357(F)1, and, in addition, no person shall possess more than one Atlantic sharpnose shark and one bonnethead shark may be retained per person per trip within or without Louisiana waters.

 $R_{\underline{r}}$ egardless of the length of a trip, no more than one Atlantic sharpnose shark per person may be possessed.

- 3. All owners/operators of vessels recreationally fishing for and/or retaining regulated Atlantic Highly Migratory Species (Atlantic tunas, sharks, swordfish and billfish) in or from the EEZ must obtain and possess a Federal Atlantic Highly Migratory Species Angling permit.
- G. Those persons possessing a Federal Commercial Directed or Incidental Limited Access Shark Permit issued by the National Marine Fisheries Service under the Federal Fishery Management Plan for Atlantic Sharks are limited to daily take, trip and possession limits as specified in that Federal Permit. Regardless of where fishing a A person aboard a vessel for which a Federal Shark Permit has been issued shall not retain, possess, barter, trade, or exchange shark of any species group for which the commercial quota has been reached and the season closed in Federal waters.
- H. 1. A vessel that has been issued or possesses a federal Commercial Directed or Incidental Limited Access sShark pPermit issued by the National Marine Fisheries Service under the Federal Fishery Management Plan for Atlantic Sharks shall not possess on any trip, or land from any trip, or sell, barter, trade, or exchange Large Coastal Species in excess of the designated trip limits, as established under the Atlantic Highly Migratory Species Plan and published in the Federal Register, 4,000 pounds, dressed weight regardless of where taken. No person shall purchase, barter, trade, or exchange shark in excess of the designated trip limits 4,000 pounds, dressed weight, or from any person who does not possess a Louisiana Commercial State Shark Permit shark permit or fFederal Commercial Directed or Incidental Limited Access pPermit, if applicable.
- 2. Persons possessing a <u>Commercial State Shark Permit</u> <u>Louisiana "Shark Permit"</u> shall not possess on any trip, or land from any trip, or sell, <u>barter</u>, <u>trade</u>, <u>or exchange</u> Large Coastal Species in excess of 4,000 pounds, dressed weight, <u>taken from</u> Louisiana state waters.
- 3. Wholesale/retail seafood dealers who receive, purchase, trade for, or barter for Atlantic sharks, taken from the EEZ, from a fishing vessel must possess a valid Federal Dealer Permit.
- I. A person aboard a vessel for which a <u>fF</u>ederal <u>Commercial Directed or Incidental Limited Access sS</u>hark <u>pP</u>ermit has been issued, or persons aboard a vessel fishing for or possessing shark in the EEZ shall comply with all applicable federal regulations.
 - J. Fins

- * * *
- 2. Shark fins that are possessed aboard or offloaded from a fishing vessel must not exceed 5 percent of the weight of the shark carcasses. All fins must be weighed in conjunction with the weighing of the carcasses at the vessel's first point of landing and such weights of the fins landed must be recorded on dealer records in compliance with R.S. 56:306.5 and R.S. 56:306.6. Fins from shark harvested by a vessel that are disproportionate to the weight of the carcasses landed shall not be sold, purchased, traded, or bartered or attempted to be sold, purchased, traded, or bartered. All sharks possessed by a recreational fisherman shall be maintained with head and fins intact and shall not be skinned until set or put on shore.
- 3. Shark fins shall not be possessed aboard a fishing vessel after the vessel's first point of landing. Shark fins that are possessed aboard or offloaded from a fishing vessel must not exceed 5 percent of the weight of the shark carcasses. All fins must be weighed in conjunction with the weighing of the carcasses at the vessel's first point of landing and such weights of the fins landed must be recorded on dealer records in compliance with R.S. 56:306.5 and R.S. 56:306.6. Fins from shark harvested by a vessel that are in excess of 5 percent of the weight of the carcasses landed shall not be sold, purchased, traded, or bartered or attempted to be sold, purchased, traded, or bartered.
- 4. Shark fins shall not be possessed aboard a fishing vessel after the vessel's first point of landing.
- 5. All make sharks possessed aboard a commercial fishing vessel shall have fins intact.

* * *

M. Seasonal Closures

1. All Louisiana State waters out to the seaward boundary of the Louisiana Territorial Sea shall be closed to the recreational and commercial harvest of all sharks between April 1 and June 30 of each year. A holder of a Federal Commercial Directed or Incidental Limited Access Shark Permit may legally harvest sharks from Federal waters beyond the Louisiana Territorial Sea and bring those sharks into Louisiana waters for sale within the provisions of that Federal Shark Permit. Effective with this closure, no person shall commercially harvest, purchase, barter, trade, sell or attempt to purchase, barter, trade or sell sharks from the closed area. Effective with the closure, no person shall retain or possess any sharks in the closed area. Sharks taken incidental to shrimp or menhaden fishing in the closed area, that are retained on the vessel as part of the harvest, may be retained only as a mixed part of the total harvest, and shall not be

retained, held, purchased, bartered, traded, exchanged, sold or attempted to be purchased, bartered, traded, exchanged or sold.

* * *

AUTHORITY NOTE: Promulgated in accordance with R.S. 56:6(10), R.S. 56:326(E)(2), R.S. 56:326.1, R.S. 56:326.3, and R.S. 56:320.2(C), and R.S. 325.2(A).

HISTORICAL NOTE: Promulgated by the Department of Wildlife and Fisheries, Wildlife and Fisheries Commission, LR 25:543 (March 1999), amended LR 27:2267 (December 2001), amended LR

Interested persons may submit comments relative to the proposed Rule to: Randy Pausina, Marine Fisheries Division, Department of Wildlife and Fisheries, Box 98000, Baton Rouge, LA 70898-9000, prior to Thursday, April 8, 2004.

The Secretary of the Department of Wildlife and Fisheries is authorized to take any and all necessary steps on behalf of the Commission to promulgate and effectuate this notice of intent and the final rule, including but not limited to, the filing of the fiscal and economic impact statements, the filing of the notice of intent and final rule and the preparation of reports and correspondence to other agencies of government.

In accordance with Act#1183 of 1999, the Department of Wildlife and Fisheries/Wildlife and Fisheries Commission hereby issues its Family Impact Statement in connection with the preceding Notice of Intent: This Notice of Intent will have no impact on the six criteria set out at R.S. 49:972(B).

Bill A. Busbice, Jr. Chairman

Presentation of Stock Assessments for Black Drum, Striped Mullet, Southern Flounder and Sheepshead was also handled by Mr. Randy Pausina. Act 1316 of the 1995 Legislature has that if the spawning potential ratio for the four species falls below 30 percent, the Department shall close the season within 2 weeks for a period of at least one year. The Marine Finfish Program collects the data needed to conduct these models. The data was collected through several different projects, such as the Fisheries Independent Monitoring Program which collects over 1700 different gill net, seine and trammel net samples; Marine Recreational Fisheries Statistical Survey which estimates recreational landings: the Trip Ticket Program which produces 500,000 reports each year which estimates commercial landings; and the age and growth labs that collect over 4,000 otoliths which allows the fish to be aged. All of this data needs to be continued long term in order to produce the stock assessments with a high level of confidence, added Mr. Pausina. The lowest value for natural mortality on

sheepshead was 45-66 percent SPR and the highest value showed a 64-92 percent SPR. With the Southern Flounder, the lowest mortality range was 27-29 percent SPR and the highest mortality range was 50-54 percent. Striped mullet, the low mortality was 31-38 percent and the high value was 62-74 percent. Finally with Black Drum, the low range was 44 percent and the high was 57-66 percent SPR. These assessments were sent for peer review but only one comment was received. The ranges for the Spawning Potential Ratios have been consistent with the past several years and the species remain in relatively good shape. Mr. Pausina then asked the Commission to approve the stock assessment reports so they could be forwarded to the State Legislature by March 1. Commissioner Stone asked if the data was ever used to change rules or to make recommendations. Mr. Pausina answered yes, it was used to change the southern flounder recreational and commercial regulations. Commissioner Felterman made a motion to submit the stock assessment reports to the Legislature as written. Commissioner Stone seconded the motion and it passed with no opposition.

Mr. Vince Guillory gave the Derelict Crab Trap Removal Program Presentation. He began stating they have heard the question, "what is a derelict crab trap?" many times and it has been defined as a trap that is not being actively fished. So, a trap can range from a new trap to an old smashed, encrusted trap. The issue was the derelict traps found in Louisiana's coastal waters and the solution could be to pick up the traps and transport them back to shore for However, there were a number of legal, landowner, fisheries and logistical issues that needed to be addressed. Mr. Guillory reminded the Commission Act 48 from the 2003 Legislature gave the Commission authority to establish a derelict crab trap removal program and the specifications for the program. Two time periods were established for the closure: a winter closure for 16 days between February 1 and March 31 and then a spring closure for 14 days to coincide with the opening of the spring inshore shrimp The Commission approved these regulations noting the spring closure included an area in western Vermilion Bay and the winter closure area would be in upper Terrebonne Bay estuary and shall run from February 28 - March 14, 2004. Other stipulations for the winter closure included: anyone can pick up the traps; the traps must be brought to designated disposal sites; the traps can not be taken out of the closure area; and the traps can only be removed during daylight hours. The next slide shown was the spring closure area in western Vermilion Bay consisting of 198,000 acres. Mr. Guillory did note that there are no crab traps allowed on State Wildlife Refuge and some of the interior marshes within that area. The winter closure area consists of 182,000 acres and was mostly privately owned. The two landowners in the area, except for some restricted places, will allow the public to go on their property to retrieve the derelict traps for disposal. Next, Mr. Guillory showed a map of the two closure areas as it relates to the entire Louisiana coast. The two areas chosen as closure areas were

relatively small, but were being used as part of a pilot study. What is learned from this year will be applied to future years.

In reference to the spring closure, the Vermilion Bay area would target deep water traps in open water and would be caught by shrimp fishermen in the process of shrimping. These shrimpers are being asked to bring these traps to designated disposal sites. A mail out to all shrimp and crab fishermen in the area and surrounding parishes on this program is planned for mid-March.

Turning to the winter closure, Mr. Guillory stated this closure would target shallow water traps in the marsh and bayous in the upper Terrebonne Bay. Those involved in the Steering Committee for the program included: Coastal Conservation Association (CCA), the Barataria-Terrebonne National Estuary Program (BTNEP), the Crab Task Force, Louisiana Wildlife Federation and LSU Sea Grant and LSU Cooperative Extension Service. Funding for the project will come from the NOAA Habitat Restoration Center, State Funds from the Crab Task Force from leftover monies from a Section 201 appeal, the Gulf States Marine Fisheries Commission by coordinating a federal aid project for all states in the Gulf, and the two landowners-Louisiana Land & Exploration and Apache Minerals, Inc. Also, those areas that are restricted have been asked to participate in the retrieval of derelict traps. Publicity on the program has been very important with several News Releases put out by the Department, newspaper and magazine articles, interviews by members of the Steering Committee on the radio and distribution of brochures and volunteer instruction sheets. Two media events that will occur include: CCA is sponsoring a Pre-Trap Sweep Media Day on February 17 and then on February 28, media would be invited to observe the program at Pointe-aux-Chenes Marina. The four disposal sites for the winter closure are Cozy Campers on Robinson Canal, Seabreeze Marina on Bayou Terrebonne, Pointe-aux-Chenes Marina and Josh's Marina on Catfish Lake. Dumpsters would be contracted and placed at the disposal sites. Department personnel will assist volunteers with supplies and instructions on two primary days during the season-February 28 and March 6 with March 13 being set aside as a bad weather day. The Department will be responsible for collecting data on the number of traps, volunteer hours and volunteer expenses. Mr. Guillory closed his presentation stating the derelict crab trap sweeps work with over 17,000 being collected from the Gulf of Mexico in 2002 and 2003.

Commissioner Broussard asked how would the spring closure line be defined in the Vermilion Bay area? Mr. Guillory stated the Vermilion Bay area is well defined and anyone collecting the traps cannot possess them outside of the closure area. Commissioner Stone asked if it has been arranged for the traps to be ferried from a shrimpers boat to the drop off sites? Mr. Guillory answered a barge would be placed at State Wildlife Refuge. Commissioner Stone felt if there was a volunteer group or an agent that could ferry the traps, it could be a big help. Commissioner Felterman

commented that a shrimper at the north end of Vermilion Bay would not run to the south end to get rid of several traps. Commissioner Stone asked that it be encouraged for shrimpers to keep the traps on their boats until they could be disposed of. Mr. Guillory stated that shrimpers can carry unserviceable traps outside of the closure areas back to shore; however, a volunteer not shrimping has to retain all traps picked up within a closure area. Commissioner Stone asked if the shrimper has to abide by certain rules to keep the traps onboard? Mr. Guillory stated it has to be unserviceable. but if it is serviceable, a shrimper can throw it overboard with a white float or bring it to back to designated sites. Commissioner Stone suggested there was a need to meet the shrimpers. Chairman Busbice stated this program needed to happen and with this being the first year, there would be problems that needed addressing. Mr. Guillory acknowledged there would be problems to address, but with the reception received, he felt it would be successful.

Mr. Jeff Angers, CCA, complimented Mr. Guillory and the Crab Task Force for their hard work on the program. He noted this would be an opportunity for everyone that has complained about the traps in the waters to get involved. Mr. Angers then stated that on the night of February 27, there would be a jambalaya dinner and drinks for the volunteers.

Ending this discussion, Commissioner Felterman asked that Atchafalaya Bay be included in the plan in the future. Mr. Guillory commented there will be the option to select any area.

Mr. Tommy Prickett announced that Mr. John Sturgis was not available to give the Hunter Safety Report and would have to be rescheduled. From July 1 to December 31, 2003, 15,689 people were hunter safety certified and of that total, 353 were certified with the new computer program. An additional 1,425 bowhunters were certified. Commissioner Felterman commented this was a great program.

Public Information Update Presentation given by Ms. Marianne Burke would cover the last two quarters of 2003. There were three Louisiana Conservationist Magazines plus the Calendar issue of the Conservationist published. Also, the regulations and pamphlets published included the Hunting Migratory Birds, Trapping Regulations, Recreational Fishing and Commercial Fishing and Special events noted were from the Sportsman's Fishing for Fun. Paradise Expo and National Hunting and Fishing Day. Media coverage was on Atchafalaya Basin size limits with Tim Morrison. In-house video covered the Enforcement Cadet Commencement for 2003, the 2004 ACI Conference, Nuisance Black Bear Conditioning and the Louisiana Joint Enforcement Agreement. The Information and Resource Library had 2,531 visitors. There were 566 e-mail information requests received; 373 phone requests and 88 requests by standard mail. The

Reception Desk logged 8,545 phone calls and 3,879 visitors. Ms. Burke then talked about the projector and microphone upgrade that occurred in the Louisiana Room. Chairman Busbice noted a great job by the Section. Commissioner Mouton felt the new podium was an added plus for the Louisiana Room.

The Commissioners agreed to hold the June 2004 Meeting on Tuesday, June 8, 2004, beginning at 10:00 a.m. at the Baton Rouge Headquarters.

Chairman Busbice asked Mr. Bennie Fontenot when would they be meeting at Booker Fowler and requested an update on the hatchery's litigation at the next meeting. Mr. Fontenot invited the Commissioners to the Inland Fish Division's meeting at 9 AM on March 17 at Booker Fowler. He stated they could visit the hatchery and see how staff handles lake management. Commissioner Felterman commented with the next meeting being at Toledo Bend, it would give some people the opportunity to visit Booker Fowler Fish Hatchery.

Chairman Busbice then asked for **Public Comments**. Mr. Joe McKeith with the Louisiana Chapter of the Wild Turkey Federation thanked Secretary Landreneau for attending their state banquet. He added they look forward to working further with the Commission and the Secretary in the future.

Mr. Phil Bowman reminded the Commission the March meeting was when the recommendations for the upcoming hunting season were presented. Since the March meeting would be at Toledo Bend, a special public hearing would be held in Baton Rouge for this area's hunters. Also, Mr. Bowman stated there would be several special reports on waterfowl and deer management presented at future meetings.

There being no further business, Commissioner Mouton made a motion to Adjourn the meeting and it was seconded by Commissioner Felterman.

Dwight Landreneau

Secretary

DL:scf

LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES

RECEIPT

DATE: 2-27-04				
RECEIPT OF: 2004 Reports on Striped Mullet, Black Drum, Sheepshead and Southern Flounder.				
SENATE PRESIDENT (State Capitol/Senate Sub-Basement)				
RECEIVED BY: Faverne Moore				
FOR SENATOR DON HINES, SENATE PRESIDENT				
HOUSE SPEAKER (State Capitol/1st Floor)				
FOR REPRESENTATIVE JOE SALTER, HOUSE SPEAKER				
SENATE NATURAL RESOURCES COMMITTEE (State Capitol/Senate Sub-Basement)				
RECEIVED BY: Sun Attus 2/29/09 FOR SENATOR MAX MALONE, CHAIRMAN, SENATE NATURAL RESOURCES COMMITTEE				
HOUSE NATURAL RESOURCES COMMITTEE (State Capitol/10th Floor)				
RECEIVED BY: Alli Carter				

FOR REPRESENTATIVE WILFRED PIERRE, CHAIRMAN, HOUSE NATURAL RESOURCES COMMITTEE



Dwight Landreneau Secretary Department of Wildlife & Fisheries Post Office Box 98000 Baton Rouge, LA 70898-9000 (225) 765-2800 Kathleen Babineaux Blanco Governor

February 26, 2004

Honorable Donald E. Hines, M.D. Senate President
Post Office Box 94183
Baton Rouge, LA 70804

Honorable Joe R. Salter Speaker of the House Post Office Box 94062 Baton Rouge, LA 70804 Honorable Max T. Malone, Chairman Senate Committee on Natural Resources Post Office Box 94183 Baton Rouge, LA 70804

Honorable Wilfred Pierre, Chairman House Committee on Natural Resources Post Office Box 44486 Baton Rouge, LA 70804

Gentlemen:

In compliance with R.S. 56:325.4(D)1 and R.S. 56:333(G)1, enclosed are the annual reports on striped mullet, black drum, sheepshead and southern flounder which include stock assessments and spawning potential ratios. Bioprofiles were not included since there were no substantive changes from last year. Also included are comments received from peer review. These reports were adopted by the Louisiana Wildlife and Fisheries Commission at its February 5, 2004 meeting.

Sincerely,

Ówight Landreneau

Secretary

scf

Enclosures

Marianne,

Please review. MINUTES OF THE MEETING

OF

Thanks;

ILDLIFE AND FISHERIES (

ursday, February 5. 200

ILDLIFE AND FISHERIES COMMISSION

FISHERIES CC ursday, February 5, 2004

Jr. presiding.

Jerry Stone

Secretary Dwight Landreneau was also present.

Commissioners Terry Denmon and Wayne Sagrera were absent from the meeting.

Chairman Busbice called for a motion for approval of the January 8, 2004 Commission Minutes. A motion for approval was made by Commissioner Mouton and seconded by Commissioner Felterman. The motion passed with no opposition.

Under Commission Special Announcements for this month, Commissioner Mouton stated he was hearing from residents of Mississippi they want to come fish in the Chandeleurs at a greatly reduced cost or at no cost at all. He felt if they did not want to pay for a Louisiana license, they should stay in Mississippi. Also Commissioner Mouton requested the Commission "stand tall" and make them pay the fee if this issue was presented.

Chairman Busbice then introduced Mr. Dwight Landreneau as being the recently appointed Secretary for the Department of Wildlife and Fisheries. Secretary Landreneau stated it was a pleasure to serve as Secretary for the Department and looked forward to working with the Commission in facing the natural resource challenges that everyone helps to protect and are used by the people of this State. Secretary Landreneau commented that Governor Blancovis interested in the stewardship of the natural resources and will be involved with the Department. He then stated he looks forward to working with the Commission over the next four years to make sure the needs of the public are met.

Recognition of Angela Capella for Receiving Outstanding Service to Informal Science Education Award by Louisiana Science Teachers Association was handled by Mr. Tommy Prickett. Ms. Angela Capella, an educator from Region 3, works at the Booker Fowler Fish Hatchery and has developed a public visitor center and program there. These programs are directed at young people particularly in

the education system. Recently Ms. Capella was given an award as the Outstanding Informal Educator in the State of Louisiana by the Louisiana Science Teachers Association. Mr. Prickett then noted that Ms. Capella is the President of the Louisiana Environmental Educators Association and the Department's representative on the Southern Association of Marine Educators. One program Ms. Capella has developed was raising paddlefish in the classroom which helps the teachers as it counts toward part of a child's curriculum. Mr. Prickett then presented a plaque to Ms. Capella.

Chairman Busbice suggested to his fellow Commissioners they should visit the Booker Fowler Fish Hatchery and felt it was a good place for those interested in bass fishing to go to. Commissioner Felterman agreed that it was a great place to visit.

The Monthly Law Enforcement Report for January was given by Major Keith LaCaze. The following numbers were issued during January.

Region I - Minden - 100 citations and 10 warnings.

Region II - Monroe - 62 citations, 4 warnings and 5 public assists.

Region III - Alexandria - 74 citations and 1 warning.

Region IV - Ferriday - 64 citations and 8 public assists.

Region V - Lake Charles - 105 citations, 1 warning and 2 public assists.

Region VI - Opelousas - 118 citations and 19 warnings.

Region VII - Baton Rouge - 142 citations, 6 warnings and 6 public assists.

Region VIII - New Orleans - 222 citations, 24 warnings and 1 public assist.

Region IX - Schriever - 162 citations, 24 warnings and 4 public assists.

Oyster Strike Force - 34 citations.

Seafood Investigation Unit - 19 citations.

SWEP - 26 citations.

Refuge Patrol - 35 citations and 7 public assists.

The grand total of citations issued statewide for the month of January was 1,049. Also 89 warning citations were issued and agents helped in 26 public assist cases.

The aviation report for January 2004 showed enforcement pilots flew three airplanes a total of 70.7 hours for enforcement and 24.5 hours for other divisions. No citations were issued.

Major LaCaze then stated Operation Game Thief met recently to review cases from their quarterly reports as well as it being their Annual Meeting. For the quarter, rewards were paid on 16 cases which totaled \$6,500. For the year 2003, \$11,500 was paid out in rewards and the total paid out since inception is \$174,600. Copies of News Releases were given to the Commissioners. Major LaCaze then reported on one News Release where an agent and several residents rescued 6 people, not wearing PFD's, from an overturned All of those rescued survived the ordeal. Commissioner Felterman asked if more people were night hunting now or were more cases being made? Major LaCaze felt more people were night hunting now which occurs in 3 year cycles. Commissioner Felterman asked what are the basis for confiscating trucks? Major LaCaze thought they were from night hunting cases. He added that anything in connection with the violation could be seized and the courts would decide if it would be forfeited to the Department. Commissioner Stone noticed that as the night hunting cases were increasing, the drug confiscations were decreasing. Chairman Busbice again stated he would like to see a mandatory jail sentence or community service handed to those night hunting violators. He then advised Secretary Landreneau he would like to meet with both he and the Governor to talk about this issue. Commissioner Mouton told of a case where a night hunter on drugs was caught by Texas wardens and they relayed how dangerous the situation could have been.

Chairman Busbice then asked if there have been any fatalities? Major LaCaze noted during the past hunting season, there were 15 cases for hunting or discharging firearms from public roads, 92 for standing or hunting in a public road, 11 for discharging firearms or hunting from a levee, 163 for hunting or taking a deer from public road and 232 cases for failure to wear hunter orange. He then stated there was one fatality in Region 9 by someone rabbit hunting. Commissioner Mouton suggested the Chairman send a letter to District Attorney's asking that the night hunting cases be prosecuted. Chairman Busbice asked Major LaCaze to prepare a letter for his signature.

Chairman Busbice then introduced Mrs. Janice Lansing as the new Undersecretary for the Department. He also stated he looked forward to working with her in the future.

Notice of Intent - Shark Harvest Regulations began with Mr. Randy Pausina stating this proposed rule would modify the shark

rules. This modification would clarify existing language and attempted to maintain consistency with federal regulations for both commercial and recreational fishermen in Federal and State waters. These actions would ensure the regulations complement federal rules in waters beyond the Territorial Sea and to assist in identifying shark species. Commissioner Mouton asked about an overlap with the season in federal and state waters. Mr. Pausina stated that change would not become effective until the 2005 shark season, so there was still time to work out the details. Commissioner Mouton asked that he be kept informed of the situation. He then read the Therefore Be It Resolved portion of the Resolution. Commissioner Broussard made a motion to accept the Resolution and it was seconded by Commissioner Mouton. The motion passed with no opposition.

(The full text of the Resolution and Notice of Intent are made a part of the record.)

RESOLUTION

MODIFICATION OF SHARK HARVEST RULES

adopted by the Louisiana Wildlife and Fisheries Commission February 5, 2004

- WHEREAS, regulations promulgated by the Louisiana Department of Wildlife and Fisheries, Wildlife and Fisheries Commission, have provided rules for the harvesting of sharks in Louisiana's state waters, and
- WHEREAS, NMFS has adopted management measures for sharks harvested in the EEZ off of Louisiana, and
- WHEREAS, adoption of compatible regulations for Louisiana state waters where feasible would enhance effectiveness and enforceability of the regulations already in place for sharks harvested in the EEZ off of Louisiana, and
- WHEREAS, substantial fisheries for sharks do also occur in Louisiana state waters that are significant to the citizens of the State of Louisiana and thus enactment of compatible regulations may also impact those persons involved in those fisheries, and
- WHEREAS, R.S. 56:6(10), 56:326(E)(2), 56:326.1, and 56:326.3 provide authority for adoption of this rule through the Wildlife and Fisheries Commission, and
- WHEREAS, R.S. 56:325.2(A) provides that all sharks possessed by a recreational fisherman shall be maintained with head and

fins intact and shall not be skinned until set or put on shore,

- THEREFORE BE IT RESOLVED, that the Wildlife and Fisheries Commission hereby promulgates a Notice of Intent to modify existing regulations to incorporate federal law and regulation changes for sharks as part of the state regulations, clarifies the existing rule, and
- BE IT FURTHER RESOLVED, the complete copy of the Notice of Intent and proposed rule are attached to and/made part of this resolution, and
- BE IT FURTHER RESOLVED, that this Rule shall become effective upon promulgation, and
- BE IT FURTHER RESOLVED, that the Secretary of the Department of Wildlife and Fisheries is authorized to take any and all necessary steps on behalf of the Commission to promulgate and effectuate this notice of intent and the final rule, including but not limited to, the filing of the fiscal and economic impact statements, the filing of the notice of intent and final rule and the preparation of reports and correspondence to other agencies of government.

Bill A. Busbice, Jr., Chairman Dwight Landreneau, Secretary

Wildlife and Fisheries Department of Wildlife and Fisheries

NOTICE OF INTENT

Department of Wildlife and Fisheries Wildlife and Fisheries Commission

Sharks and Sawfishes

The Wildlife and Fisheries Commission does hereby give notice of its intent to amend a Rule, LAC 76:VII.357, modifying the existing rule. Authority for adoption of this Rule is included in R.S. 56:6(10), 56:320.2(C), 56:325.2 (A), 56:326.1, 56:326.3, and 56:326(E)(2). Said Rule is attached to and made a part of this Notice of Intent.

Title 76

WILDLIFE AND FISHERIES

Part VII. Fish and Other Aquatic Life

Chapter 3. Saltwater Sport and Commercial Fishery

§357. Sharks and Sawfishes - Harvest Regulations

- A. The following rules and regulations are established for the taking and possession of sharks (including sawfishes) (Class Elasmobranchiomorphi: Orders Hexanchiformes, Lamniformes, Squaliformes, and Rajiformes) from within or without Louisiana waters. The provisions of this Section shall not apply to shrimp or menhaden harvest, and nothing contained herein is intended or shall be construed to repeal, amend, or otherwise modify the provisions of law applicable to shrimp or menhaden fishing, except for provisions:
 - outlawing finning of shark;
- 2. requiring a <u>Commercial State Shark Permit</u> "Shark Permit" for sale, barter, trade, or exchange;
- B. For management purposes, sharks are divided into the following categories:
- 1. Small Coastal Sharks Bonnethead shark, Atlantic sharpnose shark, Bblacknose shark, Ffinetooth shark.
- 2. Large Coastal Sharks Great \underline{Hh} ammerhead, $\underline{\$s}$ calloped \underline{Hh} ammerhead, $\underline{\$s}$ mooth \underline{Hh} ammerhead, $\underline{\$n}$ urse shark, $\underline{\$b}$ lacktip shark, $\underline{\$b}$ ull shark, $\underline{\$l}$ emon shark, $\underline{\$s}$ andbar shark, $\underline{\$s}$ silky shark, $\underline{\$s}$ pinner shark, $\underline{\$t}$ iger shark.
- 3. Pelagic Sharks Porbeagle shark, <u>Ss</u>hortfin mako, <u>Bb</u>lue shark, <u>Oo</u>ceanic whitetip shark, <u>Tt</u>hresher shark.
- 4. Prohibited Species Basking shark, \(\frac{\pi_w}{m}\) hite shark, \(\frac{\pi_b}{b}\) igeye sand tiger, \(\frac{\pi_s}{a}\) and tiger, \(\frac{\pi_w}{m}\) hale shark, \(\frac{\pi_s}{a}\) malltooth sawfish, \(\frac{\pi_l}{a}\) tiges shark, \(\frac{Caribbean}{a}\) shark, \(\frac{\pi_s}{a}\) malltail shark, \(\frac{\pi_l}{b}\) ignose shark, \(\frac{Caribbean}{a}\) shark, \(\frac{\pi_l}{a}\) igeye shark, \(\frac{\pi_l}{a}\) inght shark, \(\frac{\pi_l}{b}\) igeye sixgill shark, \(\frac{\pi_l}{b}\) igeye thresher shark, \(\frac{\pi_l}{b}\) ingfin mako, \(\frac{\pi_s}{s}\) evengill shark, \(\frac{\pi_s}{s}\) ixgill shark.
- C. In addition to all other licenses and permits required by law, a valid original <u>Commercial State Shark Permit</u> "Shark Permit" shall be annually required for persons commercially taking shark from Louisiana waters and for persons selling, exchanging, or bartering sharks as required by law; the valid original permit shall be in immediate possession of the permittee while engaged in fishing for, possessing, selling, bartering, trading, or exchanging shark.
- D. No person shall purchase, sell, exchange, barter or attempt to purchase, sell, exchange, or barter any sharks in excess

of any possession limit for which a <u>state or federal</u> commercial permit was issued.

- All persons who do not possess a Commercial State Shark Permit "Shark Permit" issued by the Department of Wildlife and Fisheries, and, if applicable, a Federal Commercial Directed or Incidental Limited Shark Permit Shark Permit issued by the National Marine Fisheries Service, are limited to a recreational possession limit. All persons who do not possess a Louisiana Commercial State Shark Permit "Shark Permit" and, if applicable, a Federal Commercial Directed or Incidental Limited Shark Permit permit issued by the National Marine Fisheries Service under the Federal Fishery Management Plan for Atlantic Sharks, shall not sell, barter, trade, exchange or attempt to sell, barter, trade or exchange any sharks, or possess any sharks in excess of a recreational possession limit. Sharks taken incidental to menhaden fishing, that are retained on the vessel as part of the harvest, may be retained and sold only as a mixed part of the total harvest, and shall not be retained, held, or sold, purchased, bartered, traded, or exchanged separately. Sharks retained as a result of menhaden fishing shall not exceed legal bycatch allowances for menhaden fishing as provided for in R.S. 56:324.
- 2. Legally licensed Louisiana wholesale/retail seafood dealers, retail seafood dealers, restaurants, and retail grocers are not required to hold a <u>Commercial State Shark Permit</u> "Shark Permit" in order to purchase, possess, exchange, barter and sell any quantities of sharks, so long as they maintain records as required by R.S. 56:306.5 and R.S. 56:306.6.
- F. Sharks taken under a recreational bag limit shall not be sold, purchased, exchanged, traded, bartered, or attempted to be sold, purchased, exchanged, traded, or bartered. A person subject to a bag limit shall not possess at any time, regardless of the number of trips or the duration of a trip, any shark in excess of the recreational bag limits or less than minimum size limits as follows:
- 1. All sharks taken under a recreational bag limit within or without Louisiana waters must be at least 54 inches fork length, except that the minimum size limit does not apply for Atlantic sharpnose or bonnethead sharks.
- 2. Owners/operators of vessels other than those taking sharks in compliance with a state or federal commercial permit are restricted to No no more than one shark from either the large coastal, small coastal or pelagic group not taken under a commercial permit may be retained per vessel per trip within or without Louisiana waters, subject to the size limits described in LAC 76:VII.357(F)1, and, in addition, no person shall possess more than one Atlantic sharpnose shark and one bonnethead shark may be retained per person per trip within or without Louisiana waters.

Rregardless of the length of a trip, no more than one Atlantic sharpnose shark per person may be possessed.

- 3. All owners/operators of vessels recreationally fishing for and/or retaining regulated Atlantic Highly Migratory Species (Atlantic tunas, sharks, swordfish and billfish) in or from the EEZ must obtain and possess a Federal Atlantic Highly Migratory Species Angling permit.
- G. Those persons possessing a Federal <u>Commercial Directed or Incidental Limited Access</u> Shark Permit issued by the National Marine Fisheries Service under the Federal Fishery Management Plan for Atlantic Sharks are limited to daily take, trip and possession limits as specified in that Federal Permit. <u>Regardless of where fishing a</u> A person aboard a vessel for which a Federal Shark Permit has been issued shall not retain, possess, barter, trade, or exchange shark of any species group for which the commercial quota has been reached and the season closed in Federal waters.
- A vessel that has been issued or possesses a federal Η. 1. Commercial Directed or Incidental Limited Access sShark pPermit issued by the National Marine Fisheries Service under the Federal Fishery Management Plan for Atlantic Sharks shall not possess on any trip, or land from any trip, or sell, barter, trade, or exchange Large Coastal Species in excess of the designated trip limits, as established under the Atlantic Highly Migratory Species Plan and published in the Federal Register, 4,000 pounds, dressed weight regardless of where taken. No person shall purchase, barter, trade, or exchange shark in excess of the designated trip <u>limits</u> 4,000 pounds, dressed weight, or from any person who does not possess a Louisiana Commercial State Shark Permit shark permit or fFederal Commercial Directed or Incidental Limited Access pPermit, if applicable.
- 2. Persons possessing a <u>Commercial State Shark Permit</u> <u>Louisiana "Shark Permit"</u> shall not possess on any trip, or land from any trip, or sell, <u>barter</u>, <u>trade</u>, or <u>exchange</u> Large Coastal Species in excess of 4,000 pounds, dressed weight, <u>taken from Louisiana state waters</u>.
- 3. Wholesale/retail seafood dealers who receive, purchase, trade for, or barter for Atlantic sharks, taken from the EEZ, from a fishing vessel must possess a valid Federal Dealer Permit.
- I. A person aboard a vessel for which a \underbrace{F}_{E} deral $\underbrace{Commercial}_{Directed}$ or $\underbrace{Incidental}_{Limited}$ \underbrace{Access}_{S} \underbrace{hark}_{P} ermit has been issued, or persons aboard a vessel fishing for or possessing shark in the EEZ shall comply with all applicable federal regulations.
 - J. Fins

- Shark fins that are possessed aboard or offloaded from a fishing vessel must not exceed 5 percent of the weight of the shark carcasses. All fins must be weighed in conjunction with the weighing of the carcasses at the vessel's first point of landing and such weights of the fins landed must be recorded on dealer records in compliance with R.S. 56:306.5 and R.S. 56:306.6. Fins from shark harvested by a vessel that are disproportionate to the weight of the carcasses landed shall not be sold, purchased, traded, or bartered or attempted to be sold, purchased, traded, or bartered. All sharks possessed by a recreational fisherman shall be maintained with head and fins intact and shall not be skinned until set or put on shore.
- Shark fins shall not be possessed aboard a fishing vessel after the vessel's first point of landing: Shark fins that are possessed aboard or offloaded from a fishing vessel must not exceed 5 percent of the weight of the shark carcasses. All fins must be weighed in conjunction with the weighing of the carcasses at the vessel's first point of landing and such weights of the fins landed must be recorded on dealer records in compliance with R.S. 56:306.5 and R.S. 56:306.6. Fins from shark harvested by a vessel that are in excess of 5 percent of the weight of the carcasses landed shall not be sold, purchased, traded, or bartered or attempted to be sold, purchased, traded, or bartered.
- ر بنا "مشاها أل Shark fins shall not be possessed aboard a fishing vessel after the vessel's first point of landing.
- All make sharks possessed aboard a commercial fishing vessel shall have fins intact.

Μ. Seasonal Closures

All Louisiana State waters out to the seaward boundary of the Louisiana Territorial Sea shall be closed to the recreational and commercial harvest of all sharks between April 1 and June 30 of each year. A holder of a Federal Commercial Directed or Incidental Limited Access Shark Permit may legally harvest sharks from Federal waters beyond the Louisiana Territorial Sea and bring those sharks into Louisiana waters for sale within the provisions of that Federal Shark Permit. Effective with this closure, no person shall commercially harvest, purchase, barter, trade, sell or attempt to purchase, barter, trade or sell sharks from the closed area. Effective with the closure, no person shall retain or possess any sharks in the closed area. Sharks taken incidental to shrimp or menhaden fishing in the closed area, that are retained on the vessel as part of the harvest, may be retained only as a mixed part of the total harvest, and shall not be

retained, held, purchased, bartered, traded, exchanged, sold or attempted to be purchased, bartered, traded, exchanged or sold.

* * *

AUTHORITY NOTE: Promulgated in accordance with R.S. 56:6(10), R.S. 56:326(E)(2), R.S. 56:326.1, R.S. 56:326.3, and R.S. 56:320.2(C), and R.S. 325.2(A).

HISTORICAL NOTE: Promulgated by the Department of Wildlife and Fisheries, Wildlife and Fisheries Commission, LR 25:543 (March 1999), amended LR 27:2267 (December 2001), amended LR ...

Interested persons may submit comments relative to the proposed Rule to: Randy Pausina, Marine Fisheries Division, Department of Wildlife and Fisheries, Box 98000, Baton Rouge, LA 70898-9000, prior to Thursday, April 8, 2004.

The Secretary of the Department of Wildlife and Fisheries is authorized to take any and all necessary steps on behalf of the Commission to promulgate and effectuate this notice of intent and the final rule, including but not limited to, the filing of the fiscal and economic impact statements, the filing of the notice of intent and final rule and the preparation of reports and correspondence to other agencies of government.

In accordance with Act#1183 of 1999, the Department of Wildlife and Fisheries/Wildlife and Fisheries Commission hereby issues its Family Impact Statement in connection with the preceding Notice of Intent: This Notice of Intent will have no impact on the six criteria set out at R.S. 49:972(B).

Bill A. Busbice, Jr. Chairman

Presentation of Stock Assessments for Black Drum, Striped Mullet, Southern Flounder and Sheepshead was also handled by Mr. Randy Pausina. Act 1316 of the 1995 Legislature has that if the spawning potential ratio for the four species falls below 30 percent, the Department shall close the season within 2 weeks for a period of at least one year. The Marine Finfish Program collects the data needed to conduct these models. The data was collected through several different projects, such as the Fisheries Independent Monitoring Program which collects over 1700 different gill net, seine and trammel net samples; Marine Recreational Fisheries Statistical Survey which estimates recreational landings; the Trip Ticket Program which produces 500,000 reports each year which estimates commercial landings; and the age and growth labs that collect over 4,000 otoliths which allows the fish to be aged. All of this data needs to be continued long term in order to produce the stock assessments with a high level of confidence, added Mr. Pausina. The lowest value for natural mortality on

sheepshead was 45-66 percent SPR and the highest value showed a 64-92 percent SPR. With the Southern Flounder, the lowest mortality range was 27-29 percent SPR and the highest mortality range was 50-54 percent. Striped mullet, the low mortality was 31-38 percent and the high value was 62-74 percent. Finally with Black Drum, the low range was 44 percent and the high was 57-66 percent SPR. These assessments were sent for peer review but only one comment was The ranges for the Spawning Potential Ratios have been consistent with the past several years and the species remain in relatively good shape. Mr. Pausina then asked the Commission to approve the stock assessment reports so they could be forwarded to the State Legislature by March 1. Commissioner Stone asked if the data was ever used to change rules or to make recommendations. Pausina answered yes, it was used to change the southern flounder recreational and commercial regulations. Commissioner Felterman made a motion to submit the stock assessment reports to the Legislature as written. Commissioner Stone seconded the motion and it passed with no opposition.

Mr. Vince Guillory gave the Derelict Crab Trap Removal Program Presentation. He began stating they have heard the question, "what is a derelict crab trap?" many times and it has been defined as a trap that is not being actively/fished. So, a trap can range from a new trap to an old smashed, encrusted trap. The issue was the derelict traps found in Louisiana's coastal waters and the solution could be to pick up the traps and transport them back to shore for However, there were a number of legal, landowner, disposal. fisheries and logistical issues that needed to be addressed. Guillory reminded the Commission Act 48 from the 2003 Legislature gave the Commission authority to establish a derelict crab trap removal program and the specifications for the program. Two time periods were established for the closure: a winter closure for 16 days between February 1 and March 31 and then a spring closure for 14 days to coincide with the opening of the spring inshore shrimp The Commission approved these regulations noting the spring closure included an area in western Vermilion Bay and the winter closure area would be in upper Terrebonne Bay estuary and shall run from February 28 - March 14, 2004. Other stipulations for the winter closure included: anyone can pick up the traps; the traps must be brought to designated disposal sites; the traps can not be taken out of the closure area; and the traps can only be removed during daylight hours. The next slide shown was the spring closure area in western Vermilion Bay consisting of 198,000 acres. Mr. Guillory did note that there are no crab traps allowed on State Wildlife Refuge and some of the interior marshes within that area. The winter closure area consists of 182,000 acres and was mostly The two landowners in the area, except for some privately owned. restricted places, will allow the public to go on their property to retrieve the derelict traps for disposal. Next, Mr. Guillory showed a map of the two closure areas as it relates to the entire Louisiana coast. The two areas chosen as closure areas were

relatively small, but were being used as part of a pilot study. What is learned from this year will be applied to future years.

In reference to the spring closure, the Vermilion Bay area would target deep water traps in open water and would be caught by shrimp fishermen in the process of shrimping. These shrimpers are being asked to bring these traps to designated disposal sites. A mail out to all shrimp and crab fishermen in the area and surrounding parishes on this program is planned for mid-March.

Turning to the winter closure, Mr. Guillory stated this closure would target shallow water traps in the marsh and bayous in the upper Terrebonne Bay. Those involved in the Steering Committee for the program included: Coastal Conservation, Association (CCA), the Barataria-Terrebonne National Estuary Program (BTNEP), the Crab Task Force, Louisiana Wildlife Federation and LSU Sea Grant and LSU Cooperative Extension Service. Funding for the project will come from the NOAA Habitat Restoration Center, State Funds from the Crab Task Force from leftover monies from a Section 201 appeal, the Gulf States Marine Fisheries Commission by coordinating a federal aid project for all states in the Gulf, and the two landowners-Louisiana Land & Exploration and Apache Minerals, Inc. Also, those areas that are restricted have been asked to participate in the retrieval of derelict traps. / Publicity on the program has been very important with several News Releases put out by Department, newspaper and magazine articles, interviews by members of the Steering Committee on the radio and distribution of brochures and volunteer instruction sheets. Two media events that will occur include: CCA is sponsoring a Pre-Trap Sweep Media Day on February 17 and then on February 28, media would be invited to observe the program at Pointe-aux-Chenes Marina. The four disposal sites for the winter closure are Cozy Campers on Robinson Canal, Seabreeze Marina on Bayou Terrebonne, Pointe-aux-Chenes Marina and Josh's Marina on Catfish Lake. Dumpsters would be contracted and placed at the disposal sites. Department personnel will assist volunteers with supplies and instructions on two primary days during the season-February 28 and March 6 with March 13 being set aside as a bad weather day. The Department will be responsible for collecting data on the number of traps, volunteer hours and volunteer expenses. Mr. Guillory closed his presentation stating the derelict crab trap sweeps work with over 17,000 being collected from the Gulf of Mexico in 2002 and 2003.

Commissioner Broussard asked how would the spring closure line be defined in the Vermilion Bay area? Mr. Guillory stated the Vermilion Bay area is well defined and anyone collecting the traps cannot possess them outside of the closure area. Commissioner Stone asked if it has been arranged for the traps to be ferried from a shrimpers boat to the drop off sites? Mr. Guillory answered a barge would be placed at State Wildlife Refuge. Commissioner Stone felt if there was a volunteer group or an agent that could ferry the traps, it could be a big help. Commissioner Felterman

commented that a shrimper at the north end of Vermilion Bay would not run to the south end to get rid of several traps. Commissioner Stone asked that it be encouraged for shrimpers to keep the traps on their boats until they could be disposed of. Mr. Guillory stated that shrimpers can carry unserviceable traps outside of the closure areas back to shore; however, a volunteer not shrimping has to retain all traps picked up within a closure area. Commissioner Stone asked if the shrimper has to abide by certain rules to keep the traps onboard? Mr. Guillory stated it has to be unserviceable, but if it is serviceable, a shrimper can throw it overboard with a white float or bring it to back to designated sites. Commissioner Stone suggested there was a need to meet the Chairman Busbice stated this program needed to happen shrimpers. and with this being the first year, there would be problems that needed addressing. Mr. Guillory acknowledged there would be problems to address, but with the reception received, he felt it would be successful.

Mr. Jeff Angers, CCA, complimented Mr. Guillory and the Crab Task Force for their hard work on the program. He noted this would be an opportunity for everyone that has complained about the traps in the waters to get involved. Mr. Angers then stated that on the night of February 27, there would be a jambalaya dinner and drinks for the volunteers.

Ending this discussion, Commissioner Felterman asked that Atchafalaya Bay be included in the plan in the future. Mr. Guillory commented there will be the option to select any area.

Mr. Tommy Prickett announced that Mr. John Sturgis was not available to give the **Hunter Safety Report** and would have to be rescheduled. From July 1 to December 31, 2003, 15,689 people were hunter safety certified and of that total, 353 were certified with the new computer program. An additional 1,425 bowhunters were certified. Commissioner Felterman commented this was a great program.

Public Information Update Presentation given by Ms. Marianne Burke would cover the last two quarters of 2003. There were three Louisiana Conservationist Magazines plus the Calendar issue of the <u>Conservationist</u> published. Also, the regulations and pamphlets Hunting Migratory Birds, included the Regulations, Recreational Fishing and Commercial Fishing and Fishing for Fun. Special events noted were from the Sportsman's Paradise Expo and National Hunting and Fishing Day. Media coverage was on Atchafalaya Basin size limits with Tim Morrison. In-house video covered the Enforcement Cadet Commencement for 2003, the 2004 ACI Conference, Nuisance Black Bear Conditioning and the Louisiana Joint Enforcement Agreement. The Information and Resource Library had 2,531 visitors. There were 566 e-mail information requests received; 373 phone requests and 88 requests by standard mail. The Reception Desk logged 8,545 phone calls and 3,879 visitors. Ms. Burke then talked about the projector and microphone upgrade that occurred in the Louisiana Room. Chairman Busbice noted a great job by the Section. Commissioner Mouton felt the new podium was an added plus for the Louisiana Room.

The Commissioners agreed to hold the **June 2004 Meeting** on Tuesday, June 8, 2004, beginning at 10:00 a.m. at the Baton Rouge Headquarters.

Chairman Busbice asked Mr. Bennie Fontenot when would they be meeting at Booker Fowler and requested an update on the hatchery's litigation at the next meeting. Mr. Fontenot invited the Commissioners to the Inland Fish Division's meeting at 9 AM on March 17 at Booker Fowler. He stated they could visit the hatchery and see how staff handles lake management. Commissioner Felterman commented with the next meeting being at Toledo Bend, it would give some people the opportunity to visit Booker Fowler Fish Hatchery.

Chairman Busbice then asked for **Public Comments**. Mr. Joe McKeith with the Louisiana Chapter of the Wild Turkey Federation thanked Secretary Landreneau for attending their state banquet. He added they look forward to working further with the Commission and the Secretary in the future.

Mr. Phil Bowman reminded the Commission the March meeting was when the recommendations for the upcoming hunting season were presented. Since the March meeting would be at Toledo Bend, a special public hearing would be held in Baton Rouge for this area's hunters. Also, Mr. Bowman stated there would be several special reports on waterfowl and deer management presented at future meetings.

There being no further business, Commissioner Mouton made a motion to **Adjourn** the meeting and it was seconded by Commissioner Felterman.

Dwight Landreneau Secretary

DL:scf



SEARCH





Friday, Feb. 6

News

Sports

Weather

Traffic

Entertainment

Food

Obituaries

Site Map

WBRZ

The Advocate

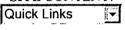
Advocate Archives

Classifieds

Get Email Alerts

Multimedia

SITE CONTENT:

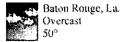


Weather





Radar | Weather Warn Quick Cast | Extended Conditions



2theadvocate > Outdoors > Wildlife and Fisheries program targets crab traps

2theadvocate Outdoors

Wildlife and Fisheries program targets crab traps

By JOE MACALUSO

jmacaluso@theadvocate.com Advocate outdoors writer

The program shaping the state's first venture into removing abandoned crab traps in coastal waters is attracting widespread volunteer support the Louisiana Wildlife and Fisheries Commission learned Thursday.

State biologist Vince Guillory, who heads the program for the Department of Wildlife and Fisheries, told the commission groups like the Coastal Conservation Association and the Louisiana Wildlife Federation are pairing with Barataria-Terrebonne Estuary Program, the state's Crab Task Force, LSU Sea Grant and the LSU Cooperative Extension Service in providing manpower for the Feb. 28 event.

Guillory said notices have been sent to crabbers in the Terrebonne Parish area they must have their traps out of the water by the Feb. 28 program date.

Guillory said all traps found in the target area in lower Terrebonne Parish between Feb. 27 and March 13 can be removed. He said four collection sites have been established where volunteers can dispose of the traps, and that Feb. 28 and March 6 will be the prime collection days for the Derelict Crab Trap Removal Program.

"Although volunteers can go an time during the two weeks, the two collection days will be better for them, because the Department of Wildlife and Fisheries will furnish supplies and instructions -- supplies like hooks, tarps, bags and gloves," Guillory said.

A second collection is scheduled for the western area of Vermilion Bay in May.

Guillory said similar programs have been established in Texas, Mississippi and Alabama and added 12,000 traps had been removed from Texas waters in 2002 and 2003. Mississippi took 3,630 and Alabama 1,570 during the past three vears.

FEATUI

Scores



Scoreb Desktop |



What':







College

- LSU sig
- State si
- SEC sig
- Super E Team ra
- Top pla

College

In other action, the LWFC voted in a Notice of Intent that will make Louisiana fall in line with new shark regulations from the National Marine Fisheries Service. The new regulations outlaw "finning" of sharks -- catching sharks and removing fins then discarding the remainder of the fish -- requires a commercial state shark permit, further delineates what sharks can and cannot be taken and that recreational anglers will be allowed to keep one shark per vessel per trip. There are further restrictions on size limits of certain sharks. The Notice of Intent will be ratified at the June 8 meeting in Baton Rouge.

The LWFC also learned that stocks of four saltwater species, sheepshead, black drum, southern flounder and striped mullet, are in "good" shape according to state marine fisheries biologists.

Flounder are the only species among the four with a "spawning potential ratio" under 30 percent. Biologists' reports that the low side of the scale for flounder was between 27 and 29 percent, while the high side was estimated at 50-64 percent. The "potential ratio" is the figure used by fisheries biologists to ascertain if there are enough adult fish in the population to continue the species at sustainable fishing levels. A SPR of 30 percent is considered adequate to fulfill this goal.

The LWFC also learned that LDWF enforcement agents issued 1,049 citations and 89 written warnings during January. The commission acknowledged LDWF employee Angela Capella, who works at the Booker Fowler Fish Hatchery for her work in tailoring education programs at the hatchery for use in school curricula around the state. The Louisiana Science Teachers Association honored Capella with its Informal Science Education Award.

The LWFC also voted to meet June 8 in Baton Rouge. Chairman Bill Busbice announced the site of the March 4 meeting at Toledo Bend will be the Wildwood Resort near Many.

Printer Friendly Version Send this story to a friend

- LSU_scl
- Souther
- All-SW/

Prep So

Playoffs

Prep Sc

● Feb. 3-I

Prep Ba

Polls: B

Sports extras

- Columni:
- High Sch
- New Orle
- New Orle
- Fun, Fitr
- -----
- NASCAFTiger Star
- 656.5--
- SEC Far
- Team sc

Copyright © 1992-2004, WBRZ, Louisiana Broadcasting LLC and The Advocate, Capital City Press LLC, All Rights Reserved. Send comments about 2theadvocate.com to comments@theadvocate.com or feedback@wbrz.com.

COMMISSION MEETING ROLL CALL

Thursday, February 5, 2004
Baton Rouge, LA
Wildlife & Fisheries Building

	Attended	Absent
Bill Busbice (Chairman)	<u> </u>	
Lee Felterman		
Terry Denmon		\checkmark
Billy Broussard	\checkmark	
Wayne Sagrera		\checkmark
Jerry Stone	\checkmark	
Henry Mouton		

Mr. Chairman:

There are <u>5</u> Commissioners in attendance and we have a quorum. Secretary Landreneau is also present.

AGENDA

LOUISIANA WILDLIFE AND FISHERIES COMMISSION

BATON ROUGE, LA February 5, 2004 10:00 AM

- 1. Roll Call
- 2. Approval of Minutes of January 8, 2004
- 3. Commission Special Announcements
- 4. Recognition of Angela Capella for Receiving Outstanding Service to Informal Science Education Award by Louisiana Science Teachers Association Tommy Prickett
 - 5. Enforcement & Aviation Reports/January Keith LaCaze
- 6. Notice of Intent Shark Harvest Regulations Randy Pausina
- 7. Presentation of Stock Assessments for Black Drum, Striped Mullet, Southern Flounder and Sheepshead Joey Shepard
- 8. Derelict Crab Trap Removal Program Presentation Vince Guillory
 - 9. Hunter Safety Report John Sturgis
 - 10. Public Information Update Presentation Marianne Burke
 - 11. Set June 2004 Meeting Date
 - 12. Public Comments
 - 13. Adjournment

AGENDA

LOUISIANA WILDLIFE AND FISHERIES COMMISSION BATON ROUGE, LA February 5 2004

February 5, 2004 10:00 AM

Roll Call

Approval of Minutes of January 8, 2004

2. Commission Special Announcements

Recognition of Angela Capella for Receiving Outstanding Service to Informal Science Education Award by Louisiana Science Teachers Association - Tommy Prickett

Enforcement & Aviation Reports/January - Keith LaCaze

Motice of Intent - Shark Harvest Regulations - Randy Pausina

Presentation of Stock Assessments for Black Drum, Striped Mullet, Southern Flounder and Sheepshead - Joey Shepard

Derelict Crab Trap Removal Program Presentation - Vince Guillory

19. Hunter Safety Report - John Sturgis

Public Information Update Presentation - Marianne Burke

11. Set June 2004 Meeting Date

12. Public Comments

13. Adjournment

Potential Benefits of a Two-Buck Limit

Utilizing data from the 2002/03 Annual Harvest Survey, it is estimated that the two-buck limit would result in 22% of the present **antlered buck harvest** to be passed up by hunters and allowed to grow older. This figure could possibly be higher, due to hunters becoming even more selective than anticipated, resulting in perhaps a thirty percent saving of the present antlered buck harvest. The number of bucks potentially allowed to grow older would be 25,597 (using the 22% estimate).

Calculations are based upon the following data from the harvest survey:

- 1) 241,400 total deer harvested in 2002/03.
- 2) We estimate a harvest of 40% does, 12% antlerless bucks, 48% antlered bucks.
- 3) The antlered buck harvest for 2002/03 would be 115,872.
- 4) 85% of the deer hunters killed 2 or less deer; this harvest would amount to 123,114 total deer. If 48% of these are antlered bucks, the antlered buck harvest would be 59,094. Since these hunters are killing two or less deer, no bucks would be passed up and allowed to grow older. The two-buck limit would have no impact on 85% of the deer hunters. However, the idea of hunters further restricting themselves could come into play here and some of these bucks may not be harvested.
- 5) 15% of the deer hunters killed 3 or more deer; this harvest would amount to 118,286 total deer. If 48% of these are antlered bucks, the antlered buck harvest would be 56,777.
- 6) The two buck limit could reduce this harvest of bucks, resulting in a potential saving of 25,597 bucks (22% of the present total buck harvest).

 Again, hunter selectivity could result in an increased saving of additional bucks.
- 7) One added benefit of the two-buck limit would be that it might entice hunters to increase their harvest of does (something that needs to be done around the state).

David Moreland, Deer Program

ζ

Table 1. Continued.

		Limits		• • • • • • • • • • • • • • • • • • •		% Hunting Success	ess	A T AAA
State	Season	Antlerless	Antlered	Restrictions ⁶	Archery	Muzzleloader	Firearms	Fees/Acre
AL	None	2 per day	l per day	C (5 wma's)	25	N/A	60	\$5-16
AR	2/day*	1or2/day*	2	С	23	20	57	\$2-4
FL	2/day*	1or2/day*	2/day*	Some WMAs	NA	NA	NA.	
GA.	12	10	2	One buck must be 4-points/side	24	26	53	\$5-15
KY		varies	- 4	· 7 WMAs	25		40	N/A
LA	6	None	None	Yes (C)	29	29	54	\$5-30
MD		Regional	Regional	No	61	A-33, B-30	55	\$5-35
MO	varies	varies	3; 1 with firearms	No	30	•	40	\$2-10
MS		w	w	A	41	49	67	\$2-5
NO	6	up to 6	*2/4	NA	.9	.?	••?	\$2-6
OK	Gun	 -	_	No	16	22	37	\$2-5
SC	15+	10+	5+	C-5 WMA's	N/A	N/A	76.7	\$4-10-
IN			(11					\$4.50
XT	٠ د	Up to 5	Up to 3	B-6 counties	55%	50%	60.0	\$5-\$7
VA	4 (east)& 3 (west)	4 (east)& 3 (west)	3 (east)& 2 (west)	On 2 WMA's	32	42	50	\$4
ŴV	9	Up to 8	Up to 5	1 WMA	22	18	58	\$1-5

^{*} North Carolina - Up to 2 bucks in those areas in the Western Season, Northwestern Season, and those areas of the Central Season where hunting with dogs is not allowed. Up to 4 bucks in those areas in the Eastern Season and those areas of the Central Season where hunting with dogs is allowed.

Table 1. Continued.

						Tagging System Validation	B
		1	Hunting (Full	Hunting License Fees (Full Season)	Physical Tag?	Mandatory?	I
State	No. of Hunters ⁵	5-Year Trend	Resident	Non-Resident	License Tag? None?	Volunteer? None?	Bonus Tags Available?
AL	227,700	Stable	\$16	\$252	None	None	N/A
AR	250,000	Stable	\$10.50 - 25	\$100 - 225	License Tag	Mandatory	For Female Deer
FL	150,000	Stable	\$12	\$151	None	Some WMAs	Ν̈́o
GA	279,863	DOWN	\$19	\$177	License Tag	NONE	WMA'S
KY	271,000*	Stable	\$30.00	\$130	Hunter Log	Mandatory	Yes
LA	169,200	Stable	\$29-50	\$300-352	None	None	None
MD	84,086	Down	\$36.50	\$180	Physical Tag	Mandatory	Yes ,antlered only
МО	425,000	Stable	\$15	\$145	License Tag	Mandatory	Yes, antlerless-only
MS	174,000	Down	\$18.85-	\$303.85-382.70	None	Volunteer-	Yes, antlerless,
NC	195,000	Down	\$30	\$120	License Tag	Mandatory	No
OK	180,708	Stable	\$12.50	\$201	Carcass Tag	Mandatory	No
SC	148,823	Stable	\$25	\$140-200	None	None	Yes
N	227,000	Stable	\$39	\$156	Physical	Mandatory	No
TX	544,993	Up	\$23	\$300	License Tag	none	yes
VA	263,593	Down	\$25-50	\$140-190	Physical Tag	Mandatory	Yes, antierless only
WV	290,000*	Decrease	\$25	\$110	Physical Tag	Mandatory	Yes

Hawkins, Susan

From:

Gresham, Thomas

Sent:

Wednesday, February 04, 2004 8:18 AM

To:

Hawkins, Susan

Subject:

FW: HUNTING AND FISHING LICENSE

Susan.

Please pass Mr. Schiaffino's comments along to each of the commissioners.

Thanks,
Thomas Gresham
News and Media Relations Manager
Public Information
Louisiana Department of Wildlife and Fisheries

From:

DON A SCHIAFFINO

Sent:

Tuesday, February 3, 2004 8:01 PM

To:

Gresham, Thomas

Subject:

Re: HUNTING AND FISHING LICENSE

MR. GRESHAM,I DON'T KNOW IF I WILL BE ABLE TO ATTEND ANY OF THE MEETINGS, BUT I WOULD REALLY APPRECIATE IF YOU WOULD PASS SOME OF MY CONCERNS ONTO SECRETARY LANDRENEAU. I HAVE BEEN HUNTING IN MISS. FOR ABOUT FIFTEEN YEARS EVEN ON LANDS THAT I ONCE OWNED. I HAVE SEEN THE PRICE OF NO RESIDANT LICENSE GO FROM \$60.00 TO \$300.00.DON'T GET ME WRONG I HUNT AND FISH IN LOUISIANA BUT, I'M THE TYPE OF PERSON THAT LIKES TO HUNT IN DIFFERENT PLACES.I HAVE HEARD OF PRICE WARS BETWEEN THE TWO STATES GOING ON FOR YEARS.MISSISSIPPI RESIDANTS WANT TO FISH LA. WATERS AND LA. RESIDENTS WANT TO HUNT MISS. LANDS.I DON'T KNOW IF THAT IS THE WHOLE STORY BUT, IT SEEMS THAT WE COULD REACH A HAPPY MEDUIM INSTEAD OF TRYING TO DETURE PEOPLE FROM COMING OVER BY MAKING LCENSE PRICES UNAFFORDABLE.I HAVE TWO SONS,TWELVE AND SIX, IT IS NO LONGER ABOUT ME IT IS ABOUT MY KIDS.I WANT TO BRING THEM UP IN THE OUTDOORS AND GIVE THE OPPURTUNITY TO HUNT AND FISH IN DIFFERENT PLACES.I DON'T KNOW IF ANYTHING CAN BE DONE BUT, JUST THOUGHT I WOULD BRING IT UP. THANKS IN ADVANCE DON SCHIAFFINO!

----Original Message----

From: Gresham, Thomas <Gresham_TP@wlf.state.la.us>
To: 'DON A SCHIAFFINO' <DONSCHIA@prodigy.net>

Date: Wednesday, January 28, 2004 8:33 AM

ENFORCEMENT CASE REPORT JANUARY, 2004

PARISHES BIENVILLE BOSSIER CADDO CLAIBORNE WEBSTER RED RIVER DESOTO

TOTAL CASES	100	
TOTAL		DESCRIPTION OF CITATION
15	Boating	Safety
17	Angling	W/O Resident License
3	Angling	W/O License – Non Resident
1	Fish W/	O Resident Pole License
1	Take G	ame Fish Illegally
1	Take Ill	egal Sıze Black Bass
1	Obtain 1	License Or Engage Activity During Revocation
1	Sell Fish	W/O Wholesale/Retail Dealers License – Resident
1	Retail D Dealer	Pealer Buy Fish From Other Than Wholesale/Retail Seafood
1	Failure	To Maintain Records
5	Hunting	W/O Resident License
2	Hunt Fr	om Moving Vehicle
1	Hunting	; W/Unplugged Gun
9	Hunt, St	tand, Loiter On Public Road
3	Hunt M	GB W/O State MGB License
1	Failure '	To Comply W/Hunter Safety Regulations

1	Hunt W/O Resident Big Game License
3	Hunt Or Take Deer Illegal Hours Or With Aitificial Light
1	Hunt Deer Illegal Methods
3	Hunt Or Tal e Deer From Public Road
2	Hunt Or Take Illegal Deer Open Season
1	Failure To Wear Hunters Orange
2	Hunting Ducks W/O Federal Stamp
2	Hunting MGB Illegal Hours
1	Violate MGB Tagging Requirements
1	Transport Of Completely Dressed MGB (No Wing Tip Left On)
3	Violate Non Toxic Shot Requirements
2	Take/Possess Over Limit Ducks (Field Possession)
2	Taking Or Possession Of Other Non Game Birds (No Season)
2	Littering
1	Other Than Wildlife & Fisheries
1	Possession Of Firearm By Convicted Γelon – Certain Γelonies
6	Operate ATV On Public Road
3	Discharge Firearm From Public Road

TOTAL 10	DESCRIPTION OF CITATION
2	Boating Safety
125	
2	Angling W/O Resident License
1	Failure To Abide By Commission Rules
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
1 .	Failure To Wear Hunter Orange
3	Not Abiding By Rules And Regulations On WMA
1	Hunting On WMA W/O WMA Permit

CONFISCATIONS:

CONFISCATION DESCRIPTION

3 Doe Deer; 1 Remington 870; 12 Ga. Shotgun; 1 Button Buck; 1 Charles Dailey, 12 Ga. Shotgun; 1 Remington 30/06 Rifle; 1 Cormorant; 41 Live 12 Ga. Shotgun Shells (Lead); 43 Spent 12 Ga. Shotgun Shells; 1 Black Bass (Released Alive); 5 Wood Ducks; 6 Turkey Lead Shot 10 Ga. Shells; 1 Remington .270 Cal. Rifle; 2 Spent .270 Cal. Shells; 4 Live 30/30 Cal. Shells; 5 Completely Dressed Ducks; 5 Wood Duck Heads; 4 Bags Whole Catfish; 1 Ruger 30/06 Rifle; 1 Deer Grunt Call; 5-30/06 Shell Cartridges

TOTAL OF EACH CATEGORY FOR REGION I:

DESCRIPTION
Boating
Commercial Fishing
Federal Migratory
Littering
Miscellaneous
Recreational Fishing

32	State Hunting/Trapping	
10	Written Warnings	

TOTAL	DESCRIPTION
	<u>·</u>
0	Public Assistance

REGION 2: MONROE

PARISHES: E. CARROLL, JACKSON,

LINCOLN, MOREHOUSE, OUACHITA, RICHALND, UNION, W. CARROLL

	UNION, W. CARROLL
TOTAL CASES	62
TOTAL	DESCRIPTION OF CITATION
8	Boating Safety
1	Hunt W/O A Resident License
1	Hunt W/O A Big Game License
1	Hunter's Orange Violation
3	Hunt Migratory Game Bird (MGB) W/O A Federal Stamp
1	Possess Wild Quadrupeds Without A License
1	Filing False Public Records
5	Hunt With An Unplugged Gun
1	Illegal Use of Emergency Blue Light
1	Not Abiding By Rules And Regulations On WMA
2	Hunt On DMAP W/O A Permit
2	Take Non-Game Quadrupeds Illegally
2	Hunt From A Moving Vehicle
6	Hunt MGB Illegal Hours
2	Possession Of Illegally Taken Deer Open Season
2	Hunt Deer From Public Road

3	Angle Without A License
2	Violate Non-toxic Shot Requirements
2	Violate MGB Treaty Act
4	Hunt MGB W/O State MGB License
1	Discharge Firearm From Public Road
4	Illegal Possession Of Marijuana
1	Contributing To The Delinquency Of A Minor
2	Violate Lake D'Arbonne Yo-yo Regulations
1	Take Illegal Size Black Bass
2	Take Over Limit Game Fish
1	Careless Operation Of Motor Vehicle

DESCRIPTION OF CITATION
Expired Boat Regulations Certificate
Improper Boat Numbers
Improper Running Lights
No Boat Numbers

CON	JFI	SC	AT	เก	NS	١.
	4 I I				1 1 1	

CONFISCATION DESCRIPTION	
-Set DMAP Records; 2- Deer, 1-Doe, 2-Geese, 129- White Perch	

TOTAL OF EACH CATEGORY FOR REGION 2:

DESCRIPTION
Boating
Commercial Fishing
Federal Migratory
Littering
Miscellaneous
Recreational Fishing
State Hunting/Trapping
Written Warnings

DESCRIPTION
Public Assistance (Assisting Stranded Motorists and Boaters)

REGION 3: ALEXANDRIA

PARISHES: AVOYELLES, GRANT,

NATCHITOCHES, RAPIDES, SABINE, VERNON, WINN

TOTAL CASES	74		
TOTAL	DESCRIPTION OF CITATION		
3	Failure To Wear Hunter's Orange		
7	unt Deer From Public Road		
2	Hunt Wild Quads Illegal Hours		
7	Hunt From Moving Vehicle		
2	Hunt Deer Illegal Methods		
3	Hunt W/O Resident License		
4	Federal Transport Completely Dressed MGB (Ducks)		
2	ederal – Hunt Ducks W/O Federal Stamp		
1	Federal – Hunt MGB With Unplugged Gun		
2	Federal – Hunt MGB Illegal Hours		
5	Hunt Deer Illegal Hours		
3	Illegal Spotlighting From A Public Road		
2	Hunt, Stand, Loiter From Public Road		
1	Hunt Without Resident Big Game License		
3	Federal – Hunt MGB Illegal Hours		
1	Hunt With Unplugged Gun		

2	Federal – Violate Non-Toxic Shot Requirements
3	Federal – Transport Completely Dressed MGB
1	Hunt on WMA W/O WMA Hunt Permit
1	Careless Operation Of A Vehicle
1	Loaded Gun In Vehicle
2	Expired Boat Registration
1	Failure to Comply With PFD Regulation
4	Operating ATV On Public Road
1	Littering
8	Angling W/O A License
2	Angling W/O a License Non Resident

TOTAL	DESCRIPTION OF CITATION
1	Hunting W/O Resident License

CONFISCATIONS:

CONFISCATIONS: CONFISCATION DESCRIPTION				
Ducks - 26; Rifles - 2; I	ights – 1	-	 	

TOTAL OF EACH CATEGORY FOR REGION 3:

Boating	
Commercial Fishing	
Federal Migratory	
Littering	
Miscellaneous	
Recreational Fishing	 -
State Hunting/Trapping	, <u>.</u> .
Written Warnings	
	Federal Migratory Littering Miscellaneous Recreational Fishing State Hunting/Trapping

TOTAL	DESCRIPTION
0	Public Assistance

REGION 4: FERRIDAY

PARISHES: CALDWELL, CATAHOULA, CONCORDIA, FRANKLLIN, LASALLE, MADISON, TENSAS

TOTAL CASES	64		
TOTAL	DESCRIPTION OF CITATION		
11	Boating Safety		
1	Fail To Have Commercial License In Possession		
1	Take Commercial Fish W/O Commercial Gear License		
1	Hunting W/O Resident License		
8	Hunting From Moving Vehicle		
1	Hunting W/Unplugged Gun		
5	Hunt Wild Quadrupeds Illegal Hours		
1	Hunt Across Public Road		
3	Hunt From Public Road		
1	Hunt From Levee Road		
1	Hunt W/O Resident Big Game License		
3	Running Deer Dogs During Still Hunting Season		
3	Hunt Or Take Deer Illegal Hours		
5	Hunt Deer Illegal Methods		
1	Hunt Or Take Deer From Public Road		
1	Hunt Or Take Illegal Deer Open Season		

1	Possess Over Limit Of Deer
3	Possession Of Illegally Taken Deer (Open Season)
3	Fail To Comply W/Hunters Orange Regulations
1	Hunting Ducks W/O Federal Stamp
2	Violating National Wildlife Regulations
1	Not Abiding By Rules & Regulations On WMA
1	Resisting An Officer
2	Littering
2	Operate ATV On Public Road
1	Obtain License By Fraud

TOTAL	DESCRIPTION OF CITATION		
<u> </u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
•			

CONFISCATIONS:

CONFISCATION DESCRIPTION			
4 Deer; 8 Guns; 2 Spotlights			
, , ,			

TOTAL OF EACH CATEGORY FOR REGION 4:

_

TOTAL	DESCRIPTION	
8	Public Assistance	

REGION 5: LAKE CHARLES

PARISHES: BEAUREGARD, CALCASIEU,

EVANGELINE, ALLEN, CAMERON, ACADIA, VERMILION, JEFF DAVIS

TOTAL CASES	105
TOTAL	DESCRIPTION OF CITATION
12	Boating
6	Angling W/O A License
2	Take Or Poss. Game Fish Illegally/White Perch/Hoop Nets
1	Take Illegal Size Black Bass
1	Fail To Have Comm. License In Possession
1	Sell And/Or Buy Fish W/O Retail Seafood License
13	Fail To Maintain Records
5	Hntg. W/O A Res. Lic.
13	Hntg. From A Moving Vehicle And/Or Aircraft
2	Hntg. W/Unplugged Gun Or Silencer
11	Hntg. Wild Quadrupeds And/Or Wild Birds Illegal Hours
12	Hunt, Stand, Loiter From Public Road
1	Fail To Comply W/Hunter Safety Regulations
2	Hntg. W/O Res. Big Game License
2	Hunt Or Take Deer Illegal Hours Or W/Artificial Light

1	Hntg. Deer Illegal Method
1	Hunt Or Take Deer Illegal Weapon
1	Hntg. MGB W/O State MGB License
1	Hntg. Ducks Or Geese W/O Federal Stamp
1	Hntg. MGB W/Unplugged Gun
2	Hntg. MGB Illegal Hours
2	Violate MGB Tagging Requirements
1	Violate Non Toxic Shot Regulations
1	Hntg. Ducks Closed Season
1	Operate Vessel While Intoxicated
4	Illegal Spotlighting From Public Road
3	Other Than Wildlife And Fisheries Violations
2	Dicharge Firearm From Public Road

TOTAL	DESCRIPTION OF CITATION
1	Angling W/O A License

CONFISCATIONS:

CONFISCATION DESCRIPTION

2 Deer; 8 Rabbits; 3 Shotguns; 4 Rifles; 5 Q Beams; 1-Camo Pouch W/Bullets; 2 Boxes 22. Cal. Bullets; 1 Box Federal Ammo W/15 Loose Rounds; 5 Buckshot Shells; 17 Leadshot Shells; 1-5 Gallon Bucket W/Molasses & Corn; 1 Plastic Garbage Bag W/Sweet Feed; 2 Teal; 19 Geese; 8 Ducks; 1 Pintail; 1 Ibis; 2 Woodcocks; 2 Hooded Mergansers; 1 Hoop Net; 4 White Perch RTW; 2 Black Bass; 2 Rods; 2 Reels; Trip Tickets

TOTAL OF EACH CATEGORY FOR REGION 5:

TOTAL	DESCRIPTION
12	Boating
15	Commercial Fishing
9	Federal Migratory
	Littering
10	Miscellaneous
9	Recreational Fishing
50	State Hunting/Trapping
1	Written Warnings

DESCRIPTION	
Public Assistance	
	DESCRIPTION Public Assistance

REGION 6: OPELOUSAS

PARISHES: IBERIA, IBERVILLE, PT.COUPEE, LAFAYETTE, ST. LANDRY, ST. MARTIN, W.B.R.

	W.B.R.
TOTAL CASES	118
TOTAL	DESCRIPTION OF CITATION
16	Boating
8	Hunting W/O Resident License
7	Angling W/O License In Possession
2	Flight From An Officer
2	Operate ATV Vehicle On Public Road
12	Hunt Or Take Deer Illegal Hours With Artificial Light
16	Hunt From Moving Vehicle
6	Hunt From Public Road
1	Fish W/O Resident Pole License
2	Failure To Abide By Commission Rules
2	Fail To Wear Hunters Orange
2	Hunt MGB W/O State MGB Stamp
7	Hunt Wild Quadruped Illegal Hours
4	Hunt From Levee Road
1	Violate Non-Toxic Shot Requirements
2	Hunt Ducks Closed Season-Pintail

3	Hunt MGB Illegal Hours
3	Hunt Or Take Illegal Deer Open Season
2	Failure To Abide By Commission Rules
4	Hunt Or Take Deer From Public Road
1	Take/Sell Commercial Fish Bait Species W/O Commercial License
1	Take Commercial Fish W/O Commercial Gear License
1	Field Possession On Untagged Deer
1	Fail To Maintain Sex Identification
2	Hunt On DMAP Lands W/O Permit From Owner/Lessee
2	Take/Possess Over Limit Of Wood Ducks
1	Possess Over Limit Of Deer
1	Hunt W/O Resident Big Game License
2	Hunt W/O Muzzleloader License
1	Take Illegal Size Black Bass
1	Not Abiding By Rules/Regulations On WMA
2	Illegal Possession Of Stolen Firearm

TOTAL 19	DESCRIPTION OF CITATION
5	Boating

Not Abiding By Rules/Regulations On WMA
Angling W/O License
Hunt W/O Resident License
Failure To Wear Hunters Orange

CONFISCATIONS:

CONFISCATION DESCRIPTION

9 Deer, 9 Rifles, 3 Trucks, 1 Box of .22 Bullets, 1 Laser Sight, 1 Case, 1 Spotlight, 4 Rabbits, 1 Drake Pintail, 2 Shotguns, 3 Leadshot Shells, 2 Woodcock, 1 5 Pt. Horns, 7 Wood Ducks, 56 Catfish, 1 Ice Chest, 1 Black Bass

TOTAL OF EACH CATEGORY FOR REGION 6:

TOTAL	DESCRIPTION
16	Boating
2	Commercial Fishing
8	Federal Migratory
0	Littering
7	Miscellaneous
9	Recreational Fishing
76	State Hunting/Trapping
19	Written Warnings

TOTAL	DESCRIPTION	
0	Public Assistance	

REGION 7: BATON ROUGE

PARISHES: ASCENSION, E.B. ROUGE,

E. FELICIANA, LIVINGSTON ST. HELENA, ST. TAMMANY, TANGIPAHOA, WASHINGTON,

W. FELICIANA

TOTAL CASES	142
TOTAL	DESCRIPTION OF CITATION
6	Boating
9	Angling Without Resident License
1	Angling Without Non-Resident License
1	Sell Fish Without Wholesale /Retail Dealer's License
1	Buy/Sell Fish Without Retail Seafood Dealers License
1	Possess/Sell Unlabeled Catfish
8	Hunt Without Resident License
4	Hunt Without Resident Big Game License
3	Hunt With Unplugged Gun
15	Failure To Wear Hunters Orange
8	Violate Rules and Regulations On W.M.A.'s
1	Hunt Without W.M.A. Permit
3	Hunt Without Muzzleloader License
1	Transport Without Required License
17	Hunt From A Moving Vehicle

Hunt Deer From A Public Road
Hunt Deer Illegal Hours
Take Deer Illegal Hours
Take Deer Illegal Methods
Hunt Deer Illegal Methods
Attempt To Take Over Limit Of Deer
Take Illegal Deer Open Season
Hunt Wild Quadrupeds Illegal Hours
Hunt Deer Closed Area
Possession Of Wild Quadrupeds (Deer) Without A Permit
Hunt M.G.B Illegal Hours
Take Over Limit of M.G. B. (Ducks)
Violate Non-Toxic Shot Requirements
Hunt M.G.B. (Ducks) With Unplugged Gun
Hunt M.G. B. (Ducks) Without Federal Stamp
Hunt M. G. B. (Ducks) Without State Stamp
Criminal Trespass
Unauthorized Use Of A Moveable
Operate Without Scenic River Permit

2	Violate Scenic River Rules and Regulations

DESCRIPTION OF CITATION
Boating
No Hunters Orange
Angling Without License

CONFISCATIONS:

	CONFISCATION DESCRIPTION
11-Deer	13-Guns
4-Ducks	2-Spotlights

TOTAL OF EACH CATEGORY FOR REGION 7:

TOTAL	DESCRIPTION
6	Boating
4	Commercial Fishing
12	Federal Migratory
-0-	Littering
11	Miscellaneous
10	Recreational Fishing
99	State Hunting/Trapping
6	Written Warnings

TOTAL 6	DESCRIPTION
	Public Assistance 4-Assist Motorists 2-Lost Hunters

REGION 8: NEW ORLEANS

PARISHES: PLAQUEMINE, ST. BERNARD, ORLEANS, JEFFERSON, ST. CHARLES

	S1. CHARLES
TOTAL CASES	222
TOTAL	DESCRIPTION OF CITATION
51	Boating
20	Angling W/O A License
2	Angling W/O A License Non-Resident
2	Angling W/O A Saltwater License
2	Take Or Poss. Undersized Red Drum(Recreational)
3	Take Or Poss. Undersized Black Drum
5	Commission Rules And Regulations - Red Snapper
3	Take/Poss. O/L Spotted Sea Trout(On Water)
3	Commission Rules And Regulations - Grouper
2	Commission Rules And Regulations - Cobia
1	Commission Rules And Regulations - Amberjack
1	Take Or Poss. Commercial Fish W/O Vessel License
11	Sell And/Or Buy Fish W/O Wholesale/Retail Dealer's License
1	Sell And/Or Buy Fish Without A Retail Seafood Dealer's License
9	Fail To Maintain Records
3	Transport W/O Required License
, <u>.</u>	

Sell And/Or Purchase Game Fish
Buy Spotted Sea Trout From A Unpermitted Fisherman
Buy Commercial Fish From Unlicensed Fisherman
Fail To Report Commercial Fisheries Data
Failure To Have Written Permission
Unlawfully Take Oysters From State Water Bottoms
Take Oysters From Unapproved Area (Polluted)
Unlawfully Take Oysters Off A Private Lease
Possession Of Untagged/Improperly Tagged Oysters
Violate Sanitation Code
Failure To Abide By Commission Rules
Hunting From Moving Vehicle
Hunt MGB W/O State Stamp
Hunt Or Take Deer Closed Season
Hunt Or Take Deer with Artificial Light
Take Deer From Public Road
Take Illegal Deer Open Season
Sell Reptiles Or Amphibian Without Collectors License
Hunting Ducks W/O Federal Stamp
Wanton Waste Of MGB

2	Using Lead Shot In Area Designated As Steel Shot Only
3	Hunting Ducks Closed Season
4	Possess Over Limit Of Ducks
2	Hunting Gallinules Closed Season
1	Taking Ibis-No Season
1	Taking Or Possession Of Other Non-Game Birds-No Season
3	Not Abiding By Rules And Regulations On WMA
4	Criminal Trespass
3	Littering
1	Endangered Species Act
1	Operating Vehicle While Intoxicated
7	State Interstate Commerce Violation
1	Possess For Sale Unlabeled Catfish

DESCRIPTION OF CITATION
Boating
Angling W/O A License
Angling W/O A Saltwater License
Take Or Poss. Undersized Red Drum
Take or Poss. Undersized Black Drum

1	Failure to Display Proper Number on Vessel	
10	Not Abiding By Rules and Regulations on WMA	

CONFISCATIONS:

CONFISCATION DESCRIPTION

Donated....Hog(2)....Deer(1)....Ducks(43)....Speckled Trout(99)....Oyster Sacks(144)....Red Drum(6)....Black Drum(6)....Sea Gulls(2)....Ibis(2)....Crabs(100 Lbs.)....Red Snapper(20) Gallinule(2)....Hardware Confiscated....Rod And Reel(1)....Truck(1)....Shotguns(2)....Rifles(2) Ice Chest(1)

TOTAL OF EACH CATEGORY FOR REGION 8:

TOTAL	DESCRIPTION
51	Boating
78	Commercial Fishing
22	Federal Migratory
3	Littering
18	Miscellaneous
29	Recreational Fishing
21	State Hunting/Trapping
24	Written Warnings

TOTAL	DESCRIPTION	
1	Public Assistance	
	·	

REGION 9: SCHRIEVER

PARISHES: ASSUMPTION, ST. JAMES,

ST. JOHN, ST. MARY,

TERREBONNE, LAFOURCHE, JEFFERSON-GRAND ISLE,

LOWER ST. MARTIN

	LOWER ST. MARTIN
TOTAL CASES	162
TOTAL	DESCRIPTION OF CITATION
38	Boating
35	Angling Without A License
3	Angling Without A Non-Resident License
1	Violate Recreational Gear License Requirement
17	Angling Without Saltwater License
2	Angling Without Saltwater License Non-Resident
1	Take Over Limit Of Red Drum On Water
1	Take Illegal Size Black Bass
7	Take Undersized Red Drum Recreational
1	Take Undersized Spotted Sea Trout Recreational
7	Take Undersized Black Drum Recreational
3	Take Over Limit Black Drum Recreational
1	Engage Activity During Revocation Of Licenses
2	Fail To Have Commercial License In Possession

Take Commercial Fish Without Commercial Gear License (Oyster Harvester)
Take Commercial Fish Without Commercial Vessel License
Sell And Buy Fish Without Resident Wholesale/Retail Dealer's License
Fail To Maintain Records
Violate Crab Trap Escape Ring Requirements
Take Oysters Without Oyster Harvester License (Captains Only)
Failure To Have Written Permission
Taking Oysters From Unapproved Area (Polluted)
Violate Sanitary Code
Hunting Without Resident License
Hunting From Moving Vehicle
Hunting With Unplugged Gun
Hunt Wild Quadrupeds Illegal Hours
Hunt From Levee Road
Possession Of Buckshot During Closed Deer Season
Hunt Without Resident Big Game License
Fail To Wear Hunters Orange
Hunt On DMAP Lands Without Permit From Owner
Hunt Ducks Without Federal Stamp

1	Hunt MGB Illegal Hours
1	Using Lead Shot In Area Designated As Steel Shot Only
2	Not Abiding By WMA Rules And Regulations By Having Loaded Firearm In Moving Boat
1	Not Abiding By WMA Rules And Regulations By Hunting Deer With Modern Firearm During Muzzle Loader Season

WRITTEN WARNINGS:

DESCRIPTION OF CITATION	
Boating	
Angling Without A License	
Angling Without A Non-Resident License	
Angling Without Saltwater License	
Angling Without Non-Resident Saltwater License	
Hunt MGB Without State Stamp	 .
Fail To Wear Hunter Orange	
	Boating Angling Without A License Angling Without A Non-Resident License Angling Without Saltwater License Angling Without Non-Resident Saltwater License Hunt MGB Without State Stamp

CONFISCATIONS:

CONFISCATION DESCRIPTION

3 Flounders, 19 Lbs. Shrimp, 6 Rabbits, 65 Black Drum, 23 Red Drum, 1 Black Bass, 2 Deer, 13 Sacks Oysters, 18 D-Map Tags, 2 Shotguns, 1 Pistol, 3 Rods And Reels, 1 Wire Trap, 2 Spot Lights, 4 Recreational Licenses, 2 Boats (Paper Seizures), 3 Oyster Dredges, Various Shotgun Shells

TOTAL OF EACH CATEGORY FOR REGION 9:

DESCRIPTION	
Boating	
Commercial Fishing	
Federal Migratory	
Littering	
Miscellaneous	
Recreational Fishing	
State Hunting/Trapping	
Written Warnings	

TOTAL NUMBER FOR PUBLIC ASSISTANCE:

TOTAL	DESCRIPTION
4	Public Assistance

COASTAL WATERS

OYSTER STRIKE FORCE

TOTAL CASES	3 34
TOTAL	DESCRIPTION OF CITATION
1	Take Or Possess Commercial Fish Without A Commercial License
1	Take Or Possess Oysters Without An Oyster Harvester License
2	Failure To Have Written Permission
1	Unlawfully Take Oysters From State Water Bottoms
2	Take Oysters From An Unapproved Area
2	Unlawfully Take Oysters From Private Lease
2	Take Undersized Oysters From Natural Reef
2	Take Oysters Closed Season
1	Failure To Display Proper Number On Vessel
3	Violate Sanitary Code
3	Take Or Possess Over Limit Black Drum
3	Take Or Possess Undersize Red Drum
3	Take Or Possess Undersize Black Drum
2	Angling Without A Saltwater License Non Resident
2	Angling Without A Basic License Non Resident
1	No Boat Registration In Possession
1	Fail To Display Valid Certificate Decal

1	Failure To Comply With PFD Requirements
1	Obstruction Of Justice
	1

WRITTEN WARNINGS:

TOTAL 3	DESCRIPTION OF CITATION	
1	Failure To Display Proper Number On Vessel	
1	Angling Without A Basic License Non Resident	
1	Angling Without A Saltwater License Non Resident	

CONFISCATIONS:

CONFISCATIO	_ 	CATION DESCRIPT	ION	
135 Sacks Of Oy	sters, 9 Red Drum, 4	4 Black Drum		
ts				·
		, 		

TOTAL OF EACH CATEGORY FOR OSF:

DESCRIPTION	
Boating	
Commercial Fishing	<u>.</u>
Federal Migratory	
Littering	· · · ·
Miscellaneous	
Recreational Fishing	
	Boating Commercial Fishing Federal Migratory Littering Miscellaneous

0	State Hunting/Trapping
3	Written Warnings

TOTAL NUMBER FOR PUBLIC ASSISTANCE:

TOTAL	DESCRIPTION
0	Public Assistance

SPECIAL INVESTIGATIVE UNIT

STATEWIDE

TOTAL CASES	19	
TOTAL	DESCRIPTION OF CITATION	
1	Sell Bass As Catfish	
5	Sell Fish Without Retail Seafood Dealer's License	
1	Commercial Fisherman Sell To Consumer Without	
2	Fail To Maintain Records	
1	Transport Without Required License.	
1	Violate Sanitary Code (Oysters)	
1	Buy Fish Without Wholesale/Retail Dealer's License	
1	Possess Less Than 10% Untagged Oysters	
1	Possess Over The Limit Ducks	
1	Hunt Ducks Without Federal Stamp	
1	Hunt Without Resident License	
1	Hunt Migratory Birds Without State MGB License	
1	Angling Without a License	
1	Angling Without Saltwater License	

WRITTEN WARNINGS:

TOTAL	DESCRIPTION OF CITATION
0	,

•	\sim	זר	ME	TC	\boldsymbol{C}	۸	ГT	A	NS	
•			٦r	1.5	ι	А	ı ı	.,	13.3	٠

	CONFISCATION DESCRIPTION
75 Pounds Catfish (Don (Destroyed)	nated); 135 Pounds Dressed Catfish(Donated); 30 Pounds Bass
ii oy cuy	

TOTAL OF EACH CATEGORY FOR SIU:

DESCRIPTION
Boating
Commercial Fishing
Federal Migratory
Littering
Miscellaneous
Recreational Fishing
State Hunting/Trapping
Written Warnings

TOTAL NUMBER FOR PUBLIC ASSISTANCE:

TOTAL	DESCRIPTION	
0	Public Assistance	
-		

COASTAL WATERS

TOTAL CASES	26	
TOTAL	DESCRIPTION OF CITATION	
3	Boating	
5	Possess Red Snapper Closed Season – Commercial Rules & Regulations	
1	Angling W/O License	
1	Angling W/O Saltwater License	
2	Trawl State Waters Closed Season (Outside Waters)	
2	Take/Possess Undersize White Shrimp	
2	Violate Non-Toxic Shot Requirements	
2	Hunting MGB With Unplugged Gun	
2	Take Undersize Oysters From Natural Reef	
2	Fail To Have Written Permission (Oysters)	
2	Unlawfully Take Oysters Off Private Lease	
1	Harvest Oysters W/O Oyster Harvester License	
1	Take Commercial Fish W/O Commercial License	

WRITTEN WARNINGS:

TOTAL	DESCRIPTION OF CITATION
0	

ഗ	NE	TSC	A T	\mathbf{ION}	JÇ.
	n v		AI	יולים	

CONFISCATION DESCRIPTION

20-Red Snapper; 1-Red Drum; 2-Black Drum; 2,840 Lbs. Shrimp Sold @ \$1,278.00; 50 Sacks Of Oysters; 4-Trawls; 2-Oyster Dredges

TOTAL OF EACH CATEGORY FOR SWEP:

TOTAI	DESCRIPTION
3	Boating
17	Commercial Fishing
2	Federal Migratory
0 -	Littering
0	Miscellaneous
2	Recreational Fishing
2	State Hunting/Trapping
0	Written Warnings

TOTAL NUMBER FOR PUBLIC ASSISTANCE:

TOTAL	DESCRIPTION	
0	Public Assistance	

Hours Ran: 73

Note:

Boats Checked: 72

REFUGE PATROL

MARSH ISLAND, ROCKEFELLER, STATE WILDLIFE

	STATE WILDLIFE			
TOTAL CASES	35			
TOTAL	DESCRIPTION OF CITATION			
4	Boating			
3	Take Or Sell Commercial Fish W/O A Commercial Fisherman's License			
3	Take Or Possess Commercial Fish W/O A Gear License			
3	Take Or Possess Commercial Fish W/O A Vessel License			
6	Take Or Possess Undersize White Shrimp			
3	Trawl State Waters Closed Season (Outside Waters)			
1	Fail To Maintain Records			
2	Violate Non-Toxic Shot Requirements			
4	Hunt Ducks Closed Season			
2	Hunt Ducks Or Geese W/O Federal Stamp			
1	Hunt M.G.B. W/O State Migratory Stamp			
1	Hunt M.G.B. W/O State Hunting License			
1	Allow Unlicensed Fisherman To Use Vessel			
1	Allow Unlicensed Fisherman To Use Commercial Gear			

WRITTEN WARNINGS:

TOTAL	DESCRIPTION OF CITATION
0	
	•

COL	VITI	SC	$\mathbf{A}\mathbf{T}\mathbf{I}$	വ	N	ς.

CONFISCATION DESCRIPTION

6-Lead Shot Shells; 5,147 Lbs. White Shrimp; 8-Shrimp Trawls; 1-Duck; 1-Skipjack Tuna

TOTAL OF EACH CATEGORY FOR REFUGE PATROL:

DESCRIPTION		
Boating		
Commercial Fishing		
Federal Migratory		
Littering		
Miscellaneous		
Recreational Fishing		
State Hunting/Trapping		
Written Warnings	 -	
	Boating Commercial Fishing Federal Migratory Littering Miscellaneous Recreational Fishing State Hunting/Trapping	

TOTAL NUMBER FOR PUBLIC ASSISTANCE:

DESCRIPTION	
blic Assistance – Towed Stranded Vessels	
u	DESCRIPTION ublic Assistance – Towed Stranded Vessels

TOTAL CASES:	1,049	
	. •	
WRITTEN WARNINGS:	89	
,		
PUBLIC ASSISTANCE:	26	

ENFORCEMENT AVIATION REPORT JANUARY 2004

, i. .

185 - Amph. - 61092 Hrs. - 27.1 Enforcement Hours - 70.7

24.5

Other Division -

Total Plane Use - 95.2

LaCaze, B "Keith"

From:

DeGraff, Jeffrey

Sent:

Tuesday, January 27, 2004 4:42 PM

To:

Burke, Marianne

Subject:

LDWF Region 2 News (January 27, 2004)

NEWS FROM THE LA. DEPT. OF WILDLIFE & FISHERIES

The Public Information Section of the Louisiana Department of Wildlife and Fisheries is responsible for the distribution of LDWF news releases and the department's biweekly newsletter.

If you have questions, please contact one of the following Public Information Section staff members:

Thomas Gresham

Media Relations Manager (gresham_tp@wlf.state.la.us)

Jeffrey DeGraff

Public Information Officer (degraff_ja@wlf.state.la.us)

2004-019

WEST CARROLL MEN CITED FOR NIGHT HUNTING IN MADISON PARISH

Two West Carroll Parish residents, Allen Johnston, 35, and Lonnie Green, 33 both of Pioneer were cited on December 19 by Louisiana Department of Wildlife and Fisheries Enforcement Agents. The two were cited for allegedly hunting deer during illegal hours, hunting from a moving vehicle and hunting from a public road.

LDWF Enforcement Agent Wayne Parker saw the men allegedly shining a spotlight from the window, as their vehicle traveled along Hwy. 80. The men were found to be in possession of a loaded .22-magnum rifle. The spotlight and rifle were seized in connection with the case.

The penalty for hunting deer during illegal hours is a fine of up to \$950, jail for not more than 120 days, or both, plus court costs and forfeiture of seized items.

Hunting from a moving vehicle carries a fine of up to \$500, jail for not more than 90 days, or both, plus court costs. The penalty for hunting deer from a public road is a fine of up to \$350, jail for not more than 60 days, or both, plus court costs.

Agents participating in the case were Senior Agents Wayne Parker and Scott Watson, and Sgt. Cecil Wells.

EDITORS: For more information, contact Maj. Keith LaCaze at 225/765-2469 (lacaze bk@wlf.state.la.us).

LaCaze, B "Keith"

From:

DeGraff, Jeffrey

Sent:

Tuesday, January 27, 2004 4:44 PM

To:

Burke, Marianne

Subject:

LDWF Region 4 News (January 27, 2004)

NEWS FROM THE LA. DEPT. OF WILDLIFE & FISHERIES

The Public Information Section of the Louisiana Department of Wildlife and Fisheries is responsible for the distribution of LDWF news releases and the department's biweekly newsletter.

If you have questions, please contact one of the following Public Information Section staff members:

Thomas Gresham

Media Relations Manager (gresham tp@wlf.state.la.us)

Jeffrey DeGraff

Public Information Officer (degraff ja@wlf.state.la.us)

2004-020

COLUMBIA MAN CITED FOR W.M.A. VIOLATIONS IN CALDWELL PARISH

Charles R. (Rod) Shipp, 44, of Columbia was cited on December 12 for alleged violations of wildlife management area regulations on Boeuf River WMA.

Louisiana Department of Wildlife and Fisheries Enforcement Agent David Henslee found an ATV and empty bow case on a closed road on Boeuf Wildlife Management Area. Approximately 250 yards from the ATV, Agent Henslee found Shipp bowhunting from a stand It was determined that Henslee had been left on the WMA overnight, in violation of the regulations. Corn was distributed on the ground near the stand, a violation of baiting prohibitions on WMA lands.

Shipp was cited for the three violations of WMA rules and regulations. The penalty for each count of not abiding by rules and regulations on a WMA is a fine of up to \$350, jail for up to 60 days, or both, plus court costs.

EDITORS: For more information, contact Maj. Keith LaCaze at 225/765-2469 (lacaze_bk@wlf.state.la.us).

2004-021

WILDLIFE AGENT AND CALDWELL PARISH RESIDENTS RESCUE VICTIMS OF OVERTURNED BOAT

On the night of January 3, Louisiana Department of Wildlife and Fisheries Enforcement Senior Agent Scott Watson and two Columbia residents identified as Darrell Howard, 31, and Thomas Thorn Howard, 15, rescued six victims from a capsized boat in Lafourche Lake. Lafourche Lake is located in Caldwell Parish.

While patrolling near Lafourche Lake at approximately 11:15 p.m., Agent Watson saw the two Howard men running across the road and towards the lakeshore. They told Agent Watson that a boat had flipped over in the lake. Agent Watson and the men then used a small boat to make their way to the victims. Upon reaching the victims, Agent Watson entered the water to get a P.F.D. (lifejacket) into the hands of a 14-year-old child in the water. None of the six victims were wearing PFD's. The Howards then used their small boat to get the victims to shore. The first victim placed in the boat was a 21-year-old expectant mother.

After further investigation and interviewing, the operator of the capsized boat, Travis McFarlain Jr., 36, of Pine Prairie was issued citations for failure to comply with P.F.D requirements, no running lights, and overloaded boat. Each of these offenses carries a civil fine of \$50. McFarlain was also issued a citation for alleged reckless operation of a watercraft. Reckless operation of a boat is punishable by a fine of up to \$500, jail for 90 days, or both, plus court costs.

Additional agents participating in the investigation were Sgt. Cecil Wells and Senior Agent David Henslee.

EDITORS: For more information, contact Maj. Keith LaCaze at 225/765-2469 (lacaze_bk@wlf.state.la.us).

LaCaze, B "Keith"

From:

DeGraff, Jeffrey

Sent:

Tuesday, January 27, 2004 4:43 PM

To:

Burke, Marianne

Subject:

LDWF Region 6 News (January 27, 2004)

NEWS FROM THE LA. DEPT. OF WILDLIFE & FISHERIES

The Public Information Section of the Louisiana Department of Wildlife and Fisheries is responsible for the distribution of LDWF news releases and the department's biweekly newsletter.

If you have questions, please contact one of the following Public Information Section staff members:

Thomas Gresham

Media Relations Manager (gresham_tp@wlf.state.la.us)

Jeffrey DeGraff

Public Information Officer (degraff_ja@wlf.state.la.us)

2004-022

TWO ACADIA MEN SENTENCED FOR IBERIA PARISH FISHERIES VIOLATIONS

Edward A. Perkins Jr., 23, of Church Point, entered a plea of guilty on January 21, in the 16th Judicial District Court in Iberia Parish for theft of articles less than \$300 in value. He received a six month suspended jail sentence and was placed on supervised probation for one year. In addition he was ordered to pay a fine and court costs totaling \$359 and restitution to the victim in the amount of \$150. Perkins was also forbidden by the court to sell shrimp or seafood products in any manner for one year. The costs associated with Perkins' sentence were ordered to be paid within 90 days or he is to serve six months in jail.

Donald Wayne Thibodeaux, 46, also of Church Point entered a plea of guilty on January 22, in the 16th Judicial District Court in Iberia Parish for buying and or selling fish without a retail seafood dealer's license. He received a three month suspended jail sentence and was placed on supervised probation for two years. In addition he was ordered to pay a fine and court costs totaling \$762 and restitution to the victim in the amount of \$250. Thibodeaux was also forbidden by the court to sell shrimp or seafood products for one year. The costs associated with Thibodeaux's sentence were ordered to be paid within 60 days or serve 90 days in jail.

These sentences stemmed from an investigation by Louisiana Department of Wildlife and Fisheries Enforcement Division agents and the Iberia Parish Sheriff's Department. In June of 2003, Perkins and Thibodeaux sold shrimp to a New Iberia woman in Coteau. The victim paid \$350 for 100 pounds of head on shrimp and ended up with approximately 31 pounds of tails after the shrimp were deheaded. The average weight of shrimp after 100 pounds were deheaded would be 65 pounds. Neither Perkins nor Thibodeaux had a retail seafood dealer's license to sell shrimp.

Sixteenth Judicial Court Judge Gerard Wattigny presided over the cases and Assistant District Attorney Ralph K. Lee prosecuted. Agents participating in the investigation were Lt. Glenn Angelle,

Sgt. Robert Buatt, Senior Agents Kirby Henry and Aaron Monceaux and Iberia Parish Sheriff's Detective Scott Hotard.

EDITORS: For more information, contact Maj. Keith LaCaze at 225/765-2469 (lacaze bk@wlf.state.la.us).

2004-023

NIGHT HUNTERS ARRESTED

Louisiana Department of Wildlife and Fisheries Enforcement Division agents arrested four men on January 5 for alleged night hunting violations and vandalism. The four men were cited for hunting deer during illegal hours with artificial light, hunting from a moving vehicle and hunting from a public road.

Arrested were Landen K. Esneault, 19, and Beau D. Behrnes, 18, both of Port Allen, Jeremie Lefeaux, 17, of Maringouin and Mare G. Melancon Jr., 17, of Bueche. The four men were booked into the West Baton Rouge Parish Jail for the violations after agents apprehended them for allegedly shooting at a deer on Rosedale Road in West Baton Rouge Parish. A .22-caliber rifle was seized in connection with the case.

All four men were also connected to a drive-by shooting of Port Allen High School, which caused considerable damage to the school. The shooting occurred just prior to the subjects being apprehended by the enforcement agents. Additional charges are pending.

The penalty for hunting deer during illegal hours with artificial light is a fine of up to \$950, jail for not more than 120 days, or both, plus court costs and forfeiture of anything seized.

The violations of hunting from a public road and hunting from a moving vehicle each carry a fine of up to \$500, jail for not more than 90 days, or both, plus court costs.

Agents participating in the case were Sgt. Donald Vallet and Sr. Agents Cliff Ortis and Channing Duvall.

EDITORS: For more information, contact Maj. Keith LaCaze at 225/765-2469 (lacaze_bk@wlf.state.la.us).

LaCaze, B "Keith"

From:

DeGraff, Jeffrey

Sent:

Tuesday, January 27, 2004 4:43 PM

To:

Burke, Marianne

Subject:

LDWF Region 8 News (January 27, 2004)

NEWS FROM THE LA. DEPT. OF WILDLIFE & FISHERIES

The Public Information Section of the Louisiana Department of Wildlife and Fisheries is responsible for the distribution of LDWF news releases and the department's biweekly newsletter.

If you have questions, please contact one of the following Public Information Section staff members:

Thomas Gresham

Media Relations Manager (gresham_tp@wlf.state.la.us)

Jeffrey DeGraff

Public Information Officer (degraff_ja@wlf.state.la.us)

2004-024

GILL NETTERS CAUGHT IN YELLOW COTTON BAY

Louisiana Department of Wildlife and Fisheries enforcement agents have arrested and cited two men for allegedly taking spotted sea trout with a gill net during closed season.

Clayton M. Buras, 21, of Venice, and Dean J. Ancalade, 21, also of Buras were arrested on January 22 and booked into the Plaquemines Parish Prison for using a saltwater gill net illegally and taking commercial spotted seatrout during close season. In addition, Buras was charged with flight from an officer. The case resulted from a night patrol in the Yellow Cotton Bay area of Plaquemines Parish.

After finding a suspicious vehicle parked at the Yellow Cotton Bay Marina the agents investigated further and set up surveillance in the bay. They spotted Buras and Ancalade and watched as they worked gill nets taking fish in the darkness. All fish were loaded into sacks and hidden in the weeds along the shoreline. The fishermen were then apprehended and placed under arrest. A total of 464 spotted seatrout were seized as a result of the incident.

Violations of using saltwater gill nets illegally and taking spotted sea trout in closed season are both punishable by fines up to \$950, jail for not more than 120 days, or both, license and permit revocation and forfeiture of anything seized in connection with the violation. Buras and Ancalade will also face civil monetary fines for the 464 spotted sea trout illegally taken. The charges will be forwarded to the district attorney's office in Plaquemines Parish for prosecution.

Agents participating in the case were Lt. Robert Martin, Senior Agent Mike Garrity, Agents Jason Gernados, Roy Pier, Adam Young and Villere Reggio.

EDITORS: For more information, contact Maj. Keith LaCaze at 225/765-2469 (lacaze_bk@wlf.state.la.us).

2004-025

JEFFERSON PARISH RESIDENT ARRESTED FOR DWI

Agents from the Louisiana Department of Wildlife and Fisheries Enforcement Division have arrested Lethan R. Gill, 35, of Marrero for allegedly driving a motorboat while intoxicated. He was booked into the Jefferson Parish Correctional Center on December 31.

Enforcement agents were on boating safety patrol on the Bayou Segnette Waterway in Jefferson Parish when they stopped Gill's vessel to perform a boating safety compliance check. During the safety check, the agents noticed that Gill appeared to be intoxicated. Agents administered several standardized field sobriety tests and determined suspected intoxication. Gill was arrested and cited for operating a vessel while intoxicated.

The penalty for a first offense DWI violation is a fine of not more than \$1000 and imprisonment for not more than six months.

Agents participating in the case were Senior Agent Eddie Skena and Sgt. James Gregoire.

EDITORS: For more information, contact Maj. Keith LaCaze at 225/765-2469 (lacaze_bk@wlf.state.la.us).

2004-026

MIGRATORY GAME BIRD HUNTER CAUGHT OVER BAIT

Louisiana Department of Wildlife and Fisheries Enforcement Division enforcement agents and U.S. Fish and Wildlife Service agents issued federal citations to a duck hunter for allegedly hunting migratory game birds with the aid of bait.

Troy L. Caron, 30, of Chalmette, was cited for alleged violations of the Migratory Bird Treaty Act including hunting migratory game birds over bait, placing bait for the purpose of taking migratory game birds, taking over the limit of snipe, and wanton waste of migratory game birds. The case was a result of a week-long surveillance by state and federal agents after USFWS agents found and documented a baited pond as they were conducting an aerial flight in the Hopedale area of St. Bernard Parish.

On the morning of January 17, agents watched Caron shoot and kill 11 snipe and three ducks over the baited area. The legal limit on snipe is eight per person. At the conclusion of his hunt, the agents made contact with Caron and learned that he had placed 80 pounds of corn in the pond on January 10. All snipe and ducks were seized in connection with the case.

Violations of the Migratory Bird Treaty Act are punishable by fines up to \$5,000, jail for up to six months, or both. The citations will be forwarded to the office of the U.S. Attorney in New Orleans for prosecution.

Agents participating in the case were Senior Agents Mike Garrity and Roy Pier and USFWS Agent Stephen Clark.

EDITORS: For more information, contact Maj. Keith LaCaze at 225/765-2469

RESOLUTION

MODIFICATION OF SHARK HARVEST RULES

adopted by the Louisiana Wildlife and Fisheries Commission February 5, 2004

- WHEREAS, regulations promulgated by the Louisiana Department of Wildlife and Fisheries, Wildlife and Fisheries Commission, have provided rules for the harvesting of sharks in Louisiana's state waters, and
- WHEREAS, NMFS has adopted management measures for sharks harvested in the EEZ off of Louisiana, and
- WHEREAS, adoption of compatible regulations for Louisiana state waters where feasible would enhance effectiveness and enforceability of the regulations already in place for sharks harvested in the EEZ off of Louisiana, and
- WHEREAS, substantial fisheries for sharks do also occur in Louisiana state waters that are significant to the citizens of the State of Louisiana and thus enactment of compatible regulations may also impact those persons involved in those fisheries, and
- WHEREAS, R.S. 56:6(10), 56:326(E)(2), 56:326.1, and 56:326.3 provide authority for adoption of this rule through the Wildlife and Fisheries Commission, and
- WHEREAS, R.S. 56:325.2(A) provides that all sharks possessed by a recreational fisherman shall be maintained with head and fins intact and shall not be skinned until set or put on shore,
- THEREFORE BE IT RESOLVED, that the Wildlife and Fisheries Commission hereby promulgates a Notice of Intent to modify existing regulations to incorporate federal law and regulation changes for sharks as part of the state regulations, clarifies the existing rule, and
- BE IT FURTHER RESOLVED, the complete copy of the Notice of Intent and proposed rule are attached to and made part of this resolution, and
- BE IT FURTHER RESOLVED, that this Rule shall become effective upon promulgation, and

BE IT FURTHER RESOLVED, that the Secretary of the Department of Wildlife and Fisheries is authorized to take any and all necessary steps on behalf of the Commission to promulgate and effectuate this notice of intent and the final rule, including but not limited to, the filing of the fiscal and economic impact statements, the filing of the notice of intent and final rule and the preparation of reports and correspondence to other agencies of government.

Bill A. Busbice, Jr., Chairman Wildlife and Fisheries Commission

Dwight Landreneau, Secretary Department of Wildlife and Fisheries

NOTICE OF INTENT

Department of Wildlife and Fisheries Wildlife and Fisheries Commission

Sharks and Sawfishes

The Wildlife and Fisheries Commission does hereby give notice of its intent to amend a Rule, LAC 76:VII.357, modifying the existing rule. Authority for adoption of this Rule is included in R.S. 56:6(10), 56:320.2(C), 56:325.2 (A), 56:326.1, 56:326.3, and 56:326(E)(2). Said Rule is attached to and made a part of this Notice of Intent.

Title 76

WILDLIFE AND FISHERIES

Part VII. Fish and Other Aquatic Life

Chapter 3. Saltwater Sport and Commercial Fishery

§357. Sharks and Sawfishes - Harvest Regulations

- A. The following rules and regulations are established for the taking and possession of sharks (including sawfishes) (Class Elasmobranchiomorphi: Orders Hexanchiformes, Lamniformes, Squaliformes, and Rajiformes) from within or without Louisiana waters. The provisions of this Section shall not apply to shrimp or menhaden harvest, and nothing contained herein is intended or shall be construed to repeal, amend, or otherwise modify the provisions of law applicable to shrimp or menhaden fishing, except for provisions:
 - outlawing finning of shark;

2. requiring a <u>Commercial State Shark Permit</u> "Shark Permit" for sale, barter, trade, or exchange;

* * *

- B. For management purposes, sharks are divided into the following categories:
- 1. Small Coastal Sharks Bonnethead shark, Atlantic sharpnose shark, Bblacknose shark, Ffinetooth shark.
- 2. Large Coastal Sharks Great <u>Hh</u>ammerhead, <u>Ss</u>calloped <u>Hh</u>ammerhead, <u>Ss</u>mooth <u>Hh</u>ammerhead, <u>Nn</u>urse shark, <u>Bb</u>lacktip shark, <u>Bb</u>ull shark, <u>Hl</u>emon shark, <u>Ss</u>andbar shark, <u>Ss</u>ilky shark, <u>Ss</u>pinner shark, <u>Tt</u>iger shark.
- 3. Pelagic Sharks Porbeagle shark, <u>Ss</u>hortfin mako, Bblue shark, Ooceanic whitetip shark, <u>Tthresher shark</u>.
- 4. Prohibited Species Basking shark, \(\frac{\pi}{\text{w}}\)hite shark, \(\frac{\pi}{\text{Bb}}\)igeye sand tiger, \(\frac{\pi}{\text{sand}}\) tiger, \(\frac{\pi}{\text{w}}\)hale shark, \(\frac{\pi}{\text{smalltooth}}\) sawfish, \(\frac{\pi}{\text{bl}}\) angel shark, \(\text{Caribbean sharpnose}\) shark, \(\frac{\pi}{\text{smalltail}}\) shark, \(\frac{\pi}{\text{Bb}}\)ignose shark, \(\text{Caribbean reef shark}\), \(\frac{\pi}{\text{dusky}}\) shark, \(\frac{\pi}{\text{alapagos}}\) shark, \(\frac{\pi}{\text{Bb}}\)igeye sixgill shark, \(\frac{\pi}{\text{Bb}}\)igeye thresher shark, \(\frac{\pi}{\text{bl}}\)ongfin mako, \(\frac{\pi}{\text{Sevengill shark}}\), \(\frac{\pi}{\text{Sixgill shark}}\).
- C. In addition to all other licenses and permits required by law, a valid original <u>Commercial State Shark Permit</u> "Shark Permit" shall be annually required for persons commercially taking shark from Louisiana waters and for persons selling, exchanging, or bartering sharks as required by law; the valid original permit

shall be in immediate possession of the permittee while engaged in fishing for, possessing, selling, bartering, trading, or exchanging shark.

- D. No person shall purchase, sell, exchange, barter or attempt to purchase, sell, exchange, or barter any sharks in excess of any possession limit for which a <u>state or federal</u> commercial permit was issued.
- All persons who do not possess a Commercial State Ε. Shark Permit "Shark Permit" issued by the Department of Wildlife and Fisheries, and, if applicable, a Federal Commercial Directed or Incidental Limited Shark Permit Shark Permit issued by the National Marine Fisheries Service, are limited to a recreational possession limit. All persons who do not possess a Louisiana Commercial State Shark Permit "Shark Permit" and, if applicable, a Federal Commercial Directed or Incidental Limited Shark Permit permit issued by the National Marine Fisheries Service under the Federal Fishery Management Plan for Atlantic Sharks, shall not sell, barter, trade, exchange or attempt to sell, barter, trade or exchange any sharks, or possess any sharks in excess of a recreational possession limit. Sharks taken incidental to menhaden fishing, that are retained on the vessel as part of the harvest, may be retained and sold only as a mixed part of the total harvest, and shall not be retained, held, or sold, purchased, bartered, traded, or exchanged separately. Sharks retained as a result of menhaden fishing shall not exceed legal bycatch allowances for

menhaden fishing as provided for in R.S. 56:324.

- 2. Legally licensed Louisiana wholesale/retail seafood dealers, retail seafood dealers, restaurants, and retail grocers are not required to hold a <u>Commercial State Shark Permit "Shark Permit"</u> in order to purchase, possess, exchange, barter and sell any quantities of sharks, so long as they maintain records as required by R.S. 56:306.5 and R.S. 56:306.6.
- F. Sharks taken under a recreational bag limit shall not be sold, purchased, exchanged, traded, bartered, or attempted to be sold, purchased, exchanged, traded, or bartered. A person subject to a bag limit shall not possess at any time, regardless of the number of trips or the duration of a trip, any shark in excess of the recreational bag limits or less than minimum size limits as follows:
- 1. All sharks taken under a recreational bag limit within or without Louisiana waters must be at least 54 inches fork length, except that the minimum size limit does not apply for Atlantic sharpnose or bonnethead sharks.
- 2. Owners/operators of vessels other than those taking sharks in compliance with a state or federal commercial permit are restricted to No no more than one shark from either the large coastal, small coastal or pelagic group not taken under a commercial permit may be retained per vessel per trip within or without Louisiana waters, subject to the size limits described in LAC 76:VII.357(F)1, and, in addition, no person shall possess more

than one Atlantic sharpnose shark and one bonnethead shark may be retained per person per trip within or without Louisiana waters.

Rregardless of the length of a trip, no more than one Atlantic sharpnose shark per person may be possessed.

- 3. All owners/operators of vessels recreationally fishing for and/or retaining regulated Atlantic Highly Migratory Species (Atlantic tunas, sharks, swordfish and billfish) in or from the EEZ must obtain and possess a Federal Atlantic Highly Migratory Species Angling permit.
- G. Those persons possessing a Federal <u>Commercial Directed or Incidental Limited Access</u> Shark Permit issued by the National Marine Fisheries Service under the Federal Fishery Management Plan for Atlantic Sharks are limited to daily take, trip and possession limits as specified in that Federal Permit. <u>Regardless of where fishing a</u> A person aboard a vessel for which a Federal Shark Permit has been issued shall not retain, possess, barter, trade, or exchange shark of any species group for which the commercial quota has been reached and the season closed in Federal waters.
- H. 1. A vessel that has been issued or possesses a federal Commercial Directed or Incidental Limited Access Shark pPermit issued by the National Marine Fisheries Service under the Federal Fishery Management Plan for Atlantic Sharks shall not possess on any trip, or land from any trip, or sell, barter, trade, or exchange Large Coastal Species in excess of the designated trip limits, as established under the Atlantic Highly Migratory Species

Plan and published in the Federal Register, 4,000 pounds, dressed weight regardless of where taken. No person shall purchase, barter, trade, or exchange shark in excess of the designated trip limits 4,000 pounds, dressed weight, or from any person who does not possess a Louisiana Commercial State Shark Permit shark permit or fFederal Commercial Directed or Incidental Limited Access premit, if applicable.

- 2. Persons possessing a <u>Commercial State Shark Permit</u>

 <u>Louisiana "Shark Permit"</u> shall not possess on any trip, or land
 from any trip, or sell, <u>barter</u>, <u>trade</u>, <u>or exchange</u> Large Coastal

 Species in excess of 4,000 pounds, dressed weight, <u>taken from</u>

 Louisiana state waters.
- 3. Wholesale/retail seafood dealers who receive, purchase, trade for, or barter for Atlantic sharks, taken from the EEZ, from a fishing vessel must possess a valid Federal Dealer Permit.
- I. A person aboard a vessel for which a feederal Commercial Directed or Incidental Limited Access sShark pPermit has been issued, or persons aboard a vessel fishing for or possessing shark in the EEZ shall comply with all applicable federal regulations.

J. Fins

* * *

2. Shark fins that are possessed aboard or offloaded from a fishing vessel must not exceed 5 percent of the weight of the shark carcasses. All fins must be weighed in conjunction with

the weighing of the carcasses at the vessel's first point of landing and such weights of the fins landed must be recorded on dealer records in compliance with R.3. 56:306.5 and R.3. 56:306.6. Fins from shark harvested by a vessel that are disproportionate to the weight of the carcasses landed shall not be sold, purchased, traded, or bartered or attempted to be sold, purchased, traded, or bartered. All sharks possessed by a recreational fisherman shall be maintained with head and fins intact and shall not be skinned until set or put on shore.

- 3. Shark fins shall not be possessed aboard a fishing vessel after the vessel's first point of landing. Shark fins that are possessed aboard or offloaded from a fishing vessel must not exceed 5 percent of the weight of the shark carcasses. All fins must be weighed in conjunction with the weighing of the carcasses at the vessel's first point of landing and such weights of the fins landed must be recorded on dealer records in compliance with R.S. 56:306.5 and R.S. 56:306.6. Fins from shark harvested by a vessel that are in excess of 5 percent of the weight of the carcasses landed shall not be sold, purchased, traded, or bartered or attempted to be sold, purchased, traded, or bartered.
- 4. Shark fins shall not be possessed aboard a fishing vessel after the vessel's first point of landing.
- 5. All make sharks possessed aboard a commercial fishing vessel shall have fins intact.

* * *

M. Seasonal Closures

All Louisiana State waters out to the seaward boundary of the Louisiana Territorial Sea shall be closed to the recreational and commercial harvest of all sharks between April 1 and June 30 of each year. A holder of a Federal Commercial Directed or Incidental Limited Access Shark Permit may legally harvest sharks from Federal waters beyond the Louisiana Territorial Sea and bring those sharks into Louisiana waters for sale within the provisions of that Federal Shark Permit. Effective with this closure, no person shall commercially harvest, purchase, barter, trade, sell or attempt to purchase, barter, trade or sell sharks from the closed area. Effective with the closure, no person shall retain or possess any sharks in the closed area. Sharks taken incidental to shrimp or menhaden fishing in the closed area, that are retained on the vessel as part of the harvest, may be retained only as a mixed part of the total harvest, and shall not be retained, held, purchased, bartered, traded, exchanged, sold or attempted to be purchased, bartered, traded, exchanged or sold.

* * *

AUTHORITY NOTE: Promulgated in accordance with R.S. 56:6(10), R.S. 56:326(E)(2), R.S. 56:326.1, R.S. 56:326.3, and R.S. 56:320.2(C), and R.S. 325.2(A).

HISTORICAL NOTE: Promulgated by the Department of Wildlife and Fisheries, Wildlife and Fisheries Commission, LR 25:543 (March 1999), amended LR 27:2267 (December 2001), amended LR .

Interested persons may submit comments relative to the proposed Rule to: Randy Pausina, Marine Fisheries Division, Department of Wildlife and Fisheries, Box 98000, Baton Rouge, LA 70898-9000, prior to Thursday, April 8, 2004.

The Secretary of the Department of Wildlife and Fisheries is authorized to take any and all necessary steps on behalf of the Commission to promulgate and effectuate this notice of intent and the final rule, including but not limited to, the filing of the fiscal and economic impact statements, the filing of the notice of intent and final rule and the preparation of reports and correspondence to other agencies of government.

In accordance with Act#1183 of 1999, the Department of Wildlife and Fisheries/Wildlife and Fisheries Commission hereby issues its Family Impact Statement in connection with the preceding Notice of Intent: This Notice of Intent will have no impact on the six criteria set out at R.S. 49:972(B).

Bill A. Busbice, Jr.

Chairman

RESOLUTION

MODIFICATION OF SHARK HARVEST RULES

adopted by the Louisiana Wildlife and Fisheries Commission February 5, 2004

- WHEREAS, regulations promulgated by the Louisiana Department of Wildlife and Fisheries, Wildlife and Fisheries Commission, have provided rules for the harvesting of sharks in Louisiana's state waters, and
- WHEREAS, NMFS has adopted management measures for sharks harvested in the EEZ off of Louisiana, and
- WHEREAS, adoption of compatible regulations for Louisiana state waters where feasible would enhance effectiveness and enforceability of the regulations already in place for sharks harvested in the EEZ off of Louisiana, and
- WHEREAS, substantial fisheries for sharks do also occur in Louisiana state waters that are significant to the citizens of the State of Louisiana and thus enactment of compatible regulations may also impact those persons involved in those fisheries, and
- WHEREAS, R.S. 56:6(10), 56:326(E)(2), 56:326.1, and 56:326.3 provide authority for adoption of this rule through the Wildlife and Fisheries Commission, and
- WHEREAS, R.S. 56:325.2(A) provides that all sharks possessed by a recreational fisherman shall be maintained with head and fins intact and shall not be skinned until set or put on shore,
- THEREFORE BE IT RESOLVED, that the Wildlife and Fisheries Commission hereby promulgates a Notice of Intent to modify existing regulations to incorporate federal law and regulation changes for sharks as part of the state regulations, clarifies the existing rule, and
- BE IT FURTHER RESOLVED, the complete copy of the Notice of Intent and proposed rule are attached to and made part of this resolution, and
- BE IT FURTHER RESOLVED, that this Rule shall become effective upon promulgation, and

BE IT FURTHER RESOLVED, that the Secretary of the Department of Wildlife and Fisheries is authorized to take any and all necessary steps on behalf of the Commission to promulgate and effectuate this notice of intent and the final rule, including but not limited to, the filing of the fiscal and economic impact statements, the filing of the notice of intent and final rule and the preparation of reports and correspondence to other agencies of government.

Bill A. Busbice, Jr., Chairman Wildlife and Fisheries

Commission

Dwight Landreneau, Secretary Department of Wildlife and

Fisheries

NOTICE OF INTENT

Department of Wildlife and Fisheries Wildlife and Fisheries Commission

Sharks and Sawfishes

The Wildlife and Fisheries Commission does hereby give notice of its intent to amend a Rule, LAC 76:VII.357, modifying the existing rule. Authority for adoption of this Rule is included in R.S. 56:6(10), 56:320.2(C), 56:325.2 (A), 56:326.1, 56:326.3, and 56:326(E)(2). Said Rule is attached to and made a part of this Notice of Intent.

Title 76

WILDLIFE AND FISHERIES

Part VII. Fish and Other Aquatic Life

Chapter 3. Saltwater Sport and Commercial Fishery

§357. Sharks and Sawfishes - Harvest Regulations

- A. The following rules and regulations are established for the taking and possession of sharks (including sawfishes) (Class Elasmobranchiomorphi: Orders Hexanchiformes, Lamniformes, Squaliformes, and Rajiformes) from within or without Louisiana waters. The provisions of this Section shall not apply to shrimp or menhaden harvest, and nothing contained herein is intended or shall be construed to repeal, amend, or otherwise modify the provisions of law applicable to shrimp or menhaden fishing, except for provisions:
 - 1. outlawing finning of shark;

2. requiring a <u>Commercial State Shark Permit</u> "Shark Permit" for sale, barter, trade, or exchange;

* * *

- B. For management purposes, sharks are divided into the following categories:
- 1. Small Coastal Sharks Bonnethead shark, Atlantic sharpnose shark, Bblacknose shark, Ffinetooth shark.
- 2. Large Coastal Sharks Great <u>Hh</u>ammerhead, <u>Ss</u>calloped <u>Hh</u>ammerhead, <u>Ss</u>mooth <u>Hh</u>ammerhead, <u>Nn</u>urse shark, <u>Bb</u>lacktip shark, <u>Bb</u>ull shark, <u>Hl</u>emon shark, <u>Ss</u>andbar shark, <u>Ss</u>ilky shark, <u>Ss</u>pinner shark, <u>Ttiger</u> shark.
- 3. Pelagic Sharks Porbeagle shark, $\frac{8}{5}$ hortfin mako, $\frac{8}{5}$ blue shark, $\frac{9}{5}$ ceanic whitetip shark, $\frac{1}{5}$ hresher shark.
- 4. Prohibited Species Basking shark, \(\frac{\pi}{\pi}\)hite shark, \(\frac{\pi}{\pi}\)higeye sand tiger, \(\frac{\pi}{\pi}\)and tiger, \(\frac{\pi}{\pi}\)hale shark, \(\frac{\pi}{\pi}\)malltooth sawfish, \(\frac{\pi}{\pi}\) hark, \(\frac{\pi}{\pi}\) caribbean sharpnose shark, \(\frac{\pi}{\pi}\)malltail shark, \(\frac{\pi}{\pi}\) ignose shark, \(\Caribbea\) caribbean reef shark, \(\frac{\pi}{\pi}\) dusky shark, \(\frac{\pi}{\pi}\) alapagos shark, \(\frac{\pi}{\pi}\)narrowtooth shark, \(\frac{\pi}{\pi}\) ingeye sixgill shark, \(\frac{\pi}{\pi}\) igeye thresher shark, \(\frac{\pi}{\pi}\) ongfin mako, \(\frac{\pi}{\pi}\)evengill shark, \(\frac{\pi}{\pi}\)ixgill shark.
- C. In addition to all other licenses and permits required by law, a valid original <u>Commercial State Shark Permit</u> "Shark Permit" shall be annually required for persons commercially taking shark from Louisiana waters and for persons selling, exchanging, or bartering sharks as required by law; the valid original permit

shall be in immediate possession of the permittee while engaged in fishing for, possessing, selling, bartering, trading, or exchanging shark.

- D. No person shall purchase, sell, exchange, barter or attempt to purchase, sell, exchange, or barter any sharks in excess of any possession limit for which a <u>state or federal</u> commercial permit was issued.
- All persons who do not possess a Commercial State Ε. Shark Permit "Shark Permit" issued by the Department of Wildlife and Fisheries, and, if applicable, a Federal Commercial Directed or Incidental Limited Shark Permit Shark Permit issued by the National Marine Fisheries Service, are limited to a recreational possession limit. All persons who do not possess a Louisiana Commercial State Shark Permit "Shark Permit" and, if applicable, a Federal Commercial Directed or Incidental Limited Shark Permit permit issued by the National Marine Fisheries Service under the Federal Fishery Management Plan for Atlantic Sharks, shall not sell, barter, trade, exchange or attempt to sell, barter, trade or exchange any sharks, or possess any sharks in excess of a recreational possession limit. Sharks taken incidental to menhaden fishing, that are retained on the vessel as part of the harvest, may be retained and sold only as a mixed part of the total harvest, and shall not be retained, held, or sold, purchased, bartered, traded, or exchanged separately. Sharks retained as a result of menhaden fishing shall not exceed legal bycatch allowances for

menhaden fishing as provided for in R.S. 56:324.

- 2. Legally licensed Louisiana wholesale/retail seafood dealers, retail seafood dealers, restaurants, and retail grocers are not required to hold a <u>Commercial State Shark Permit "Shark Permit"</u> in order to purchase, possess, exchange, barter and sell any quantities of sharks, so long as they maintain records as required by R.S. 56:306.5 and R.S. 56:306.6.
- F. Sharks taken under a recreational bag limit shall not be sold, purchased, exchanged, traded, bartered, or attempted to be sold, purchased, exchanged, traded, or bartered. A person subject to a bag limit shall not possess at any time, regardless of the number of trips or the duration of a trip, any shark in excess of the recreational bag limits or less than minimum size limits as follows:
- 1. All sharks taken under a recreational bag limit within or without Louisiana waters must be at least 54 inches fork length, except that the minimum size limit does not apply for Atlantic sharpnose or bonnethead sharks.
- 2. Owners/operators of vessels other than those taking sharks in compliance with a state or federal commercial permit are restricted to No no more than one shark from either the large coastal, small coastal or pelagic group not taken under a commercial permit may be retained per vessel per trip within or without Louisiana waters, subject to the size limits described in LAC 76:VII.357(F)1, and, in addition, no person shall possess more

than one Atlantic sharpnose shark and one bonnethead shark may be retained per person per trip within or without Louisiana waters.

Rregardless of the length of a trip, no more than one Atlantic sharpnose shark per person may be possessed.

- 3. All owners/operators of vessels recreationally fishing for and/or retaining regulated Atlantic Highly Migratory Species (Atlantic tunas, sharks, swordfish and billfish) in or from the EEZ must obtain and possess a Federal Atlantic Highly Migratory Species Angling permit.
- G. Those persons possessing a Federal <u>Commercial Directed or Incidental Limited Access</u> Shark Permit issued by the National Marine Fisheries Service under the Federal Fishery Management Plan for Atlantic Sharks are limited to daily take, trip and possession limits as specified in that Federal Permit. <u>Regardless of where fishing a</u> A person aboard a vessel for which a Federal Shark Permit has been issued shall not retain, possess, barter, trade, or exchange shark of any species group for which the commercial quota has been reached and the season closed in Federal waters.
- H. 1. A vessel that has been issued or possesses a federal Commercial Directed or Incidental Limited Access sShark pPermit issued by the National Marine Fisheries Service under the Federal Fishery Management Plan for Atlantic Sharks shall not possess on any trip, or land from any trip, or sell, barter, trade, or exchange Large Coastal Species in excess of the designated trip limits, as established under the Atlantic Highly Migratory Species

Plan and published in the Federal Register, 4,000 pounds, dressed weight regardless of where taken. No person shall purchase, barter, trade, or exchange shark in excess of the designated trip limits 4,000 pounds, dressed weight, or from any person who does not possess a Louisiana Commercial State Shark Permit shark permit or fFederal Commercial Directed or Incidental Limited Access permit, if applicable.

- 2. Persons possessing a <u>Commercial State Shark Permit</u>

 <u>Louisiana "Shark Permit"</u> shall not possess on any trip, or land
 from any trip, or sell, <u>barter</u>, <u>trade</u>, or <u>exchange</u> Large Coastal
 Species in excess of 4,000 pounds, dressed weight, <u>taken from</u>
 <u>Louisiana state waters</u>.
- 3. Wholesale/retail seafood dealers who receive, purchase, trade for, or barter for Atlantic sharks, taken from the EEZ, from a fishing vessel must possess a valid Federal Dealer Permit.
- I. A person aboard a vessel for which a feederal Commercial Directed or Incidental Limited Access selark permit has been issued, or persons aboard a vessel fishing for or possessing shark in the EEZ shall comply with all applicable federal regulations.
 - J. Fins

* * *

2. Shark fins that are possessed aboard or offloaded from a fishing vessel must not exceed 5 percent of the weight of the shark carcasses. All fins must be weighed in conjunction with

the weighing of the carcasses at the vessel's first point of landing and such weights of the fins landed must be recorded on dealer records in compliance with R.S. 56:306.5 and R.S. 56:306.6. Fins from shark harvested by a vessel that are disproportionate to the weight of the carcasses landed shall not be sold, purchased, traded, or bartered or attempted to be sold, purchased, traded, or bartered. All sharks possessed by a recreational fisherman shall be maintained with head and fins intact and shall not be skinned until set or put on shore.

- vessel after the vessel's first point of landing. Shark fins that are possessed aboard or offloaded from a fishing vessel must not exceed 5 percent of the weight of the shark carcasses. All fins must be weighed in conjunction with the weighing of the carcasses at the vessel's first point of landing and such weights of the fins landed must be recorded on dealer records in compliance with R.S. 56:306.5 and R.S. 56:306.6. Fins from shark harvested by a vessel that are in excess of 5 percent of the weight of the carcasses landed shall not be sold, purchased, traded, or bartered or attempted to be sold, purchased, traded, or bartered.
- 4. Shark fins shall not be possessed aboard a fishing vessel after the vessel's first point of landing.
- 5. All make sharks possessed aboard a commercial fishing vessel shall have fins intact.

* * *

M. Seasonal Closures

All Louisiana State waters out to the seaward boundary of the Louisiana Territorial Sea shall be closed to the recreational and commercial harvest of all sharks between April 1 and June 30 of each year. A holder of a Federal Commercial Directed or Incidental Limited Access Shark Permit may legally harvest sharks from Federal waters beyond the Louisiana Territorial Sea and bring those sharks into Louisiana waters for sale within the provisions of that Federal Shark Permit. Effective with this closure, no person shall commercially harvest, purchase, barter, trade, sell or attempt to purchase, barter, trade or sell sharks from the closed area. Effective with the closure, no person shall retain or possess any sharks in the closed area. Sharks taken incidental to shrimp or menhaden fishing in the closed area, that are retained on the vessel as part of the harvest, may be retained only as a mixed part of the total harvest, and shall not be retained, held, purchased, bartered, traded, exchanged, sold or attempted to be purchased, bartered, traded, exchanged or sold.

* * *

AUTHORITY NOTE: Promulgated in accordance with R.S. 56:6(10), R.S. 56:326(E)(2), R.S. 56:326.1, R.S. 56:326.3, and R.S. 56:320.2(C), and R.S. 325.2(A).

HISTORICAL NOTE: Promulgated by the Department of Wildlife and Fisheries, Wildlife and Fisheries Commission, LR 25:543 (March 1999), amended LR 27:2267 (December 2001), amended LR .

Interested persons may submit comments relative to the proposed Rule to: Randy Pausina, Marine Fisheries Division, Department of Wildlife and Fisheries, Box 98000, Baton Rouge, LA 70898-9000, prior to Thursday, May 6, 2004.

The Secretary of the Department of Wildlife and Fisheries is authorized to take any and all necessary steps on behalf of the Commission to promulgate and effectuate this notice of intent and the final rule, including but not limited to, the filing of the fiscal and economic impact statements, the filing of the notice of intent and final rule and the preparation of reports and correspondence to other agencies of government.

In accordance with Act#1183 of 1999, the Department of Wildlife and Fisheries/Wildlife and Fisheries Commission hereby issues its Family Impact Statement in connection with the preceding Notice of Intent: This Notice of Intent will have no impact on the six criteria set out at R.S. 49:972(B).

Bill A. Busbice, Jr.

Chairman

----Original Message----

From: Murphy, Mike [mailto:Mike.Murphy2@fwc.state.fl.us]

Sent: Tuesday, February 03, 2004 10:32 AM

To: pausina_rb@wlf.state.la.us Cc: Barbieri, Luiz; Assess

Subject: Stock Assessment reviews

Hello Randy,

I've looked over the Stock Asessment sections of your reports on southern flounder, striped mullet, sheepshead, and black drum. These appear to be consistent with your past reports so I will not re-iterate my comments about the biases associated with the use of equilibrium techniques. It is encouraging to see that annual age-composition data are now being collected for these species and we look forward to seeing the results of non-equilibrium analyses in the future. Good luck with the presentation to your Commission.

Take care,

Mike

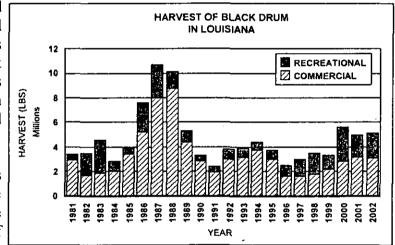
BLACK DRUM SUMMARY OF CHANGES FROM 2003 ASSESSMENT

This summary is intended to provide a quick reference of substantive changes in methods or corrections in this year's assessment from the 2003 assessment conducted for black drum.

• There are no substantive changes in methods from the 2003 assessment.

2004 DOCUMENT HIGHLIGHTS

- The 2002 combined commercial and recreational harvest of 5,132,793 pounds was the second highest recorded since 1989. It was 492,845 pounds lower than 2000's fourteen year high and 48% of 1987 landings peak.
- The results of YPR analysis indicate that if M=0.1 (the most conservative value within the range of estimates), the fishery prior to



existing regulations (Act 1316) was operating above $F_{0.1}$ and below F_{MAX} with yield of 92% of maximum, and SPR at 44%. An M of 0.15 or 0.2 would indicate a more lightly fished stock with yield being 66% to 45% of maximum and with SPR being 57% to 66% respectively.

- It should be noted that the method used in this assessment to determine the status of the stock, reflected in the estimates of disappearance, is not immediately sensitive to changes in regulations. Black drum enter the fishery at age 0 and are fully recruited by age 5. It takes several years of consistent regulations after regulations are imposed before the impact of those regulations can be measured. In the case of black drum it would take 6 years of consistent regulations assuming selectivities of age 5 and older is 100%.
- As a result of having several years of commercial trip ticket data, and collecting recreational fishery statistics data, the department was able to begin a program to representatively sample fishery dependent otoliths in 2002. The program uses trip ticket data and recreational survey data to weight sampling sites for the collection of otoliths for the species of interest. It is expected that this method of otolith sampling will improve stock assessments by providing more accurate annual catch-at-age data.

BLACK DRUM 5.0 STOCK ASSESSMENT

This assessment uses yield-per-recruit (YPR) and Spawning Potential Ratio (SPR) to estimate the impact of fishing pressure on potential yield and the spawning potential of the black drum stock in Louisiana waters. Estimates derived from YPR and SPR are based on information regarding the growth rate and spawning potential of the fish, and on estimated natural mortality rate (M) and fishing mortality rate (F) on the stock. The results from this assessment provide a generalized approach towards estimating the impact of fishing on the spawning potential and potential yield of the fish stock. The spawning biomass of females is assumed to be the factor limiting the spawning potential of the stock; therefore, where possible, only data on female black drum are used. Yield- per-recruit and SPR analysis, as with many other generalized assessments, should be used only as a guide until a more comprehensive assessment can be conducted.

In developing a stock assessment, the unit stock must be defined. While a unit stock is often represented by that portion of the population which is genetically similar, for our purpose, the most applicable definition seems to be one which considers the unit stock as that portion of the population which is either dependent on Louisiana waters, or which is available to Louisiana fishermen.

5.1 Growth

Luquet et al. (1996) presents several growth equations for black drum. The one chosen for this assessment was developed by Geaghan and Garson (unpublished), and is a sloped asymptote model fitted to a von Bertalanffy growth equation. The data used by Geaghan and Garson (unpublished) was from Beckman et al.(1988) who used otolith sections in aging fish caught in Louisiana waters. The sloped asymptote model proved to fit the data better than did other equations. The equation is as follows:

$$L_t = (610 + 9.959 * t) * (1 - e^{-0.6226(t-0.1229)})$$

where, $L_t = length$ at age t, and t = age in years.

The length-weight regression described by Beckman et al. (1990) from fish harvested in Louisiana was used in this assessment. The equation is as follows:

$$W = (1.14 * 10^{-5})FL^{3.05}$$

where, W = weight in grams, and FL = fork length in millimeters.

5.2 Natural Mortality

Natural mortality (m) is one part of total mortality (Z) and is the mortality due to all causes other than fishing. These include predation, disease, spawning stress, starvation, and old age.

Typically, natural mortality is estimated, as it is difficult to directly measure, especially on exploited fish stocks where natural mortality and fishing mortality occur simultaneously.

This assessment follows the former Louisiana Department of Wildlife and Fisheries (1990) assessment in using a range of values for natural mortality (0.1, 0.15, 0.2) to evaluate the sensitivity of M on the resulting spawning stock.

5.3 Fishing Mortality

Fishing mortality (F) estimates derived in the former Louisiana Department of Wildlife and Fisheries (1990) assessment were used in this assessment to evaluate the impact of current fishing regulations on the spawning potential of the stock. The former assessment did not address the concept of spawning potential as a management measure. The current assessment uses yield-per-recruit and SPR analysis to estimate the impact of fishing on spawning potential.

The former assessment used the growth equation described in Section 5.1 to develop annual catch-at-age tables.

5.4 Yield-per-Recruit

Yield-per-recruit and SPR analysis provide basic information about the dynamics of a fish stock by estimating the impact of mortality on yield and the spawning potential of the stock. The results can be examined as to the sensitivity of natural and fishing mortality rates on yield and spawning potential.

The growth parameters described in Section 5.1, the age-specific fishing mortality rates described in Section 5.3, and the natural mortality rates described in Section 5.2 were incorporated into the yield-per-recruit and spawning potential analysis. Fecundity estimates derived by Nieland and Wilson (1993) were used to estimate spawning potential. The equation is as follows:

$$BF = 49,249 * Age + 530,052$$

where, BF=batch fecundity. The results are presented in Table 5.1, which contains estimates of F_{MAX} (fishing mortality rate that produces maximum yield), $F_{0.1}$ (fishing mortality rate representing 10% of the slope at the origin of a yield-per-recruit curve), $F_{20\%SPR}$ (fishing mortality that produces 20% SPR), $F_{30\%SPR}$ (fishing mortality that produces 30% SPR), and estimates of F from Section 5.3.

5.5 Conservation Standards

Conservation standards are intended to protect the viability of a fish stock for future generations. These standards have historically been based on a number of biological measures of the dynamics of fish stocks, depending on the availability and adequacy of data. Conservation standards should be separated into two types: a <u>conservation threshold</u> which is entirely biologically based and, a <u>conservation target</u> which considers biological measures modified by relevant social,

economic, and ecological factors. A conservation threshold is a biological baseline for the harvest of a fish stock and should not be exceeded. It is the highest level of fishing mortality that will ensure that recruitment overfishing will not occur. Beyond the conservation threshold, a conservation target may be set, providing for other management goals in the fishery. Such goals may include maximizing yield in weight or numbers of fish, economic benefits or profit, employment, or some other measurable goal. These targets should be set at a fishing mortality rate below that of the conservation threshold in order to ensure that the biological integrity of the stock is not damaged by fishing.

The spawning potential ratio (SPR) concept described by Goodyear (1989), is a species specific value expressed as the ratio of the spawning stock biomass (or egg production) per recruit (SSB/R) in a fished condition to the SSB/R in an unfished condition. The concept is based on the premise that below some level of SPR, recruitment will be reduced. Goodyear (1989), recommends that in the absence of sufficient data to provide a value specific to the stock in question an SPR of 20% be used as a threshold. Work on North Atlantic ground fisheries also resulted in the calculation of a threshold SPR of 20% (Gabriel et al. 1984, Gabriel 1985). An SPR of 20% has been recommended for Spanish and king mackerel in the Gulf of Mexico (National Oceanic and Atmospheric Administration/National Marine Fisheries Service 1995), while an SPR of 8-13% has been demonstrated to be sufficient for gulf menhaden (Vaughan 1987). In earlier analyses of Louisiana spotted seatrout fisheries (Louisiana Department of Wildlife and Fisheries 1991), an SPR threshold of 15% was recommended based on several years of data. Mace and Sissenwine (1993) examined 90 stocks of 27 species, and reported that the average replacement SPR for all these stocks was 18.7%, while the most resilient quarter of the stocks required a maximum of only 8.6%. These authors recommended that an SPR of 30% be maintained when there is no other basis for estimating the replacement level, as this level was sufficient in maintaining recruitment for 80% of the stocks examined. However, they noted that 30% may be overly conservative for an "average" stock, and reiterated the need for stock-specific evaluations of standards to enhance both safety and benefits in the fishery.

Sufficient information is not available to directly estimate a conservation threshold for black drum in Louisiana. However, the conservation target of 30% SPR established by the 1995 Regular Session of the Louisiana Legislature for black drum, southern flounder, sheepshead, and striped mullet appears to be adequate to maintain the black drum stock and prevent recruitment overfishing.

The use of any measure of the health of a fish stock as a perfect index is arguable. It is logical to conclude that growth overfishing should occur at a much lower fishing rate than that which would threaten recruitment. However, Mace and Sissenwine (1993) provide information to suggest that some stocks may have reduced recruitment at levels of fishing that would not reduce yield-per- recruit. The preferable position for making recommendations on appropriate levels of fishing for a stock is to base those recommendations on actual measures of spawning stock size and recruitment for both the species and fishery in question. This requires a base of information resulting from monitoring of both the stock and the fishery over a variety of conditions. Without this information, conservation standards may either underestimate or overestimate the potential of a fishery. If the potential is underestimated, society loses the economic and social benefits of the

harvest. If the potential is overestimated and the fishery is allowed to operate beyond sustainable levels, society loses the benefits of a sustainable fishery, and recovery will require some period of rebuilding, when effort must be reduced from the non-sustainable levels (Hilborn and Walters, 1993).

5.6 Status of the Stock

Black drum were lightly exploited until the early 1980s when commercial harvest began to increase dramatically (Figure 5.1). Commercial landings went from 0.4 million pounds in 1980 to 8.7 million pounds in 1988. Regulations implemented in 1989 reduced the commercial harvest to between 2 and 4 million pounds annually. Regulations implemented by Act 1316 in 1995 may have reduced harvest even further as evidenced from 1996 to 1999; however, landings have increased, and are slightly above 1995 landing level. Commercial landings prior to 1991 were obtained from the National Marine Fisheries Service's (NMFS) General Canvass Landing Program, from 1991 through 1998 it was collected by the Louisiana Department of Wildlife and Fisheries' (LDWF) Monthly Dealer Reports and from 1999 to present LDWF's "Trip Tickets" program is utilized to gather this type of data.

Harvest from the recreational fishery collected through the NMFS's Marine Recreational Fishery Statistics Survey fluctuated, between 0.5 and 2.7 million pounds, for the years prior to regulation (1981-1988), and 0.4 to 2.7 million pounds post-regulations (Figure 5.2). Recreational harvest since regulations were implemented in 1989 have remained relatively stable through 1995. Recent harvest (1996-2002) shows an increasing trend. Mean catch-per-trip from the recreational fishery was calculated by selecting those trips that had black drum in their catch. The results are presented in Figure 5.3 along with 95% confidence limits around the mean. The catch-per-unit-effort (CPUE) indices cycled throughout the period examined (1981-2002), with no indication of a long-term downward trend. The years 1985, 1991 and 1996 showed the lowest mean CPUE and only significantly lower than 1982, 1986, 1993, and 2000. Fisheries dependent recreational landings data are collected through the NMFS's Marine Recreational Fisheries Statistical Survey and currently collected by LDWF Biologists.

Catch-per-effort data from the Department's, fishery-independent trammel net (750' x 6' - 1 5/8" inner, 6" outer wall) and small mesh bag seine (50' -1/4" delta mesh) samples were calculated as follows:

Mean CPUE =
$$(\exp(\sum \ln(\coth +1)/N)) - 1$$

where, catch is the total number caught in each set and, N is the number of samples taken annually. Trammel net and seine data were used for the period 1986-2003. The CPUE fluctuates throughout the time period in both the seine and trammel net samples with no indication of a long-term downward trend (Figure 5.4 and 5.5). The year 1988 was the only year where CPUE in seines showed any significant difference at the 95% confidence level and only lower than 1986, 1992, 1996 1997, 1998, 1999 and 2000. Trammel net CPUE was highly variable throughout the period as indicated by the wide confidence limits associated with the years examined. The years 1986, 1988

and 1989 had the lowest CPUE, and only significantly lower than 1996, 1998, 1999, 2000, 2001, and 2002.

Commercial harvest methods were changed on August 15, 1995 when Act 1316 of the 1995 Regular Legislative Session, the Marine Resources Conservation Act of 1995, became effective. This act outlawed the use of "set" gill nets or trammel nets in saltwater areas of Louisiana, and restricted black drum harvest by the use of "strike" nets to the period between the third Monday in October and March 1 of the following year. A "Restricted Species Permit" was required in order to harvest black drum, and several criteria were established in order to qualify for that permit. After March 1, 1997, all harvest by gill or trammel nets was banned, and legal commercial gear to harvest black drum was limited to trawl, set lines and hook and line. This set of regulations had the effect of reducing the harvest of black drum by this segment of the commercial fishing industry.

It should be noted that the following results of YPR and SPR analysis do not reflect the impact of current regulations described above. With this type of general assessment, it will take several years before the impact of regulations will be observed in the disappearance rates from the fishery.

The results of YPR analysis indicate that if M=0.1 (the most conservative value within the range of estimates), the fishery prior to existing regulations (Act 1316) was operating above $F_{0.1}$ and below F_{MAX} with yield of 92% of maximum, and SPR at 44%. An M of 0.15 or 0.2 would indicate a more lightly fished stock with yield being 66% to 45% of maximum and with SPR being 57% to 66% respectively (Table 5.1).

Current regulations are as follows: 16 inches minimum total length and 5 fish per person daily bag and possession limit with not more than one exceeding 27 inches for recreationally harvested black drum. For commercially harvested black drum there is a 16 inch minimum total length and an annual harvest quota of 3.25 million pounds for black drum measuring 16-27 inches total length and annual harvest of 300,000 fish measuring longer than 27 inches total length with the fishing year beginning September 1.

5.7 Research and Data Needs

Estimates of natural mortality used in the present assessment show wide variation. This variation reduces the reliability of the present assessment in providing an accurate prediction of the potential yield of the stock, and also reduces the confidence level of the present estimate of SPR. A more precise estimate of natural mortality would assist in both of these problems.

Annual age-length keys should continue to be developed to provide catch-at-age data necessary to conduct age-based population assessments. The department is in the process of collecting otoliths for development of annual age-length keys.

The relationship between wetlands losses or modifications and the continuation of fishery production within the state has been discussed by many authors. However, this relationship is likely

to be different for the various fishery species. Understanding this relationship for black drum should be an ongoing priority.

In the presence of changing regulations, fishery-dependent information is not a reliable source of data for assessing the status of a fish stock. However, such data are necessary to measure the effects of fishing on that stock. Consistent fishery-dependent and fishery-independent data sources, in a comprehensive monitoring plan, are essential to understanding the status of fishery stocks, and to identifying causes of changes in stock abundance. Current programs should be assessed for adequacy with respect to their ability to evaluate stock status, and modified or enhanced to optimize their capabilities.

A research project determining the current age frequency of the adult population should provide valuable insight into the impact of existing regulations. The project should attempt to be representative of the adult black drum population in offshore waters.

BIBLIOGRAPHY

- Beckman, D.W., C.A. Wilson, R.M. Parker, D.L. Nieland, and A.L. Stanley. 1988. Age structure, growth rates, and reproductive biology of black drum in the northern Gulf of Mexico off Louisiana. 1986-87 Final Rept. to USDC, MARFIN
- Beckman, D. W., A. L. Stanley, J. H. Render, and C. A. Wilson. 1990. Age and growth of black drum in Louisiana waters of the Gulf of Mexico. Trans. Am. Fish. Soc., 119:537-544.
- Gabriel, W.L. 1985. Spawning stock biomass per recruit analysis for seven Northwest Atlantic demersal finfish species. NMFS-NEFC. Woods Hole Lab. Ref. Doc. 85-04.
- Gabriel, W.L., W.J. Overholtz, S.A. Murawski and R.K. Mayo. 1984. Spawning stock biomass per recruit analysis for seven Northwest Atlantic demersal finfish species, Spring, 1984. NMFS-NEFC Woods Hole Lab. Ref. Doc. 84-23.
- Geaghan, J. and G. Garson. Unpublished. Population dynamics and stock assessment of black drum, Louisiana waters. 1989 Rept. to chairman of Louisiana SASC and TWG.
- Goodyear, C. P. 1989. Spawning stock biomass per recruit: the biological basis for a fisheries management tool. ICCAT Working Document SCRS/89/82. 10p.
- Hilborn, R. and C. J. Walters. 1992. Quantitative Fisheries Stock Assessment: Choice, Dynamics and Uncertainty. Chapman and Hall, New York. 570 pp.
- Louisiana Department of Wildlife and Fisheries. 1990. Black drum management plan. LDWF Fishery Management Plan, March 1990 (Draft).
- Louisiana Department of Wildlife and Fisheries. 1991. A stock assessment for Louisiana spotted seatrout, (Cynoscion nebulosus). LDWF Fishery Management Plan Series, Number 3 (Draft).
- Luquet, C.P., R.H. Blanchet, D.R. Lavergne, D.W. Beckman, J.M. Wakeman and D.L. Nieland 1996. A biological and fisheries profile for black drum (*Pogonias cromis*) in Louisiana. La. Dept. of Wildlife and Fisheries, Office of Fisheries. Fisheries Management Plan Series No. 7, Pt. 1.
- Mace, P.M. and M.P. Sissenwine. 1993. How much spawning per recruit is enough? pp. 101-118 in S. J. Smith, J. J. Hunt and D. Rivard (eds.) Risk Evaluation and Biological Reference Points for Fisheries Management. Can. Spec. Publ. Fish. Aq. Sci. 120. 442pp.
- National Oceanic and Atmospheric Administration/National Marine Fisheries Service 1995. 1995 Report of the mackerel stock assessment panel. Miami Lab.Con. MIA- 94/95-30 March 1995

- Nieland, D. L. and C. A. Wilson. 1993. Reproductive biology and annual variation of reproductive variables of black drum in the northern Gulf of Mexico. Trans. Am. Fish. Soc., 122:318-327.
- Vaughan, D.S. 1987. A stock assessment of the gulf menhaden, (Brevoortia patronus), fishery. NOAA NMFS Tech. Rep. 58, 18 pp.

Table 5.1 - Results of Yield Per Recruit and SPR Analysis for Black Drum

M=0.1

r	F Ratio	Ratio YPR SPR		%SPR %YPR		
Fmax =	0.982	3.0260	1,659,670	23.80%	100.00%	
F0.1 =	0.260	2.4809	3,902,316	55.96%	81.99%	Benchmarks
F20% =	1.156	3.0159	1,394,714	20.00%	99.67%	
F30% =	0.760	3.0022	2,092,071	30.00%	99.21%	
* Regulations =	0.426	2.7925	3,089,373	44.30%	92.28%	Estimate

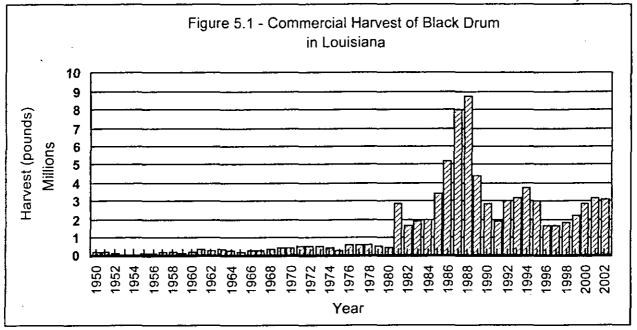
M = 0.15

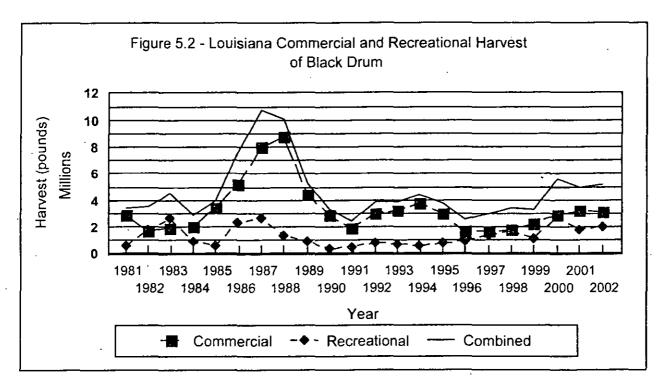
	F Ratio	YPR	SPR	%SPR %YPR		
Fmax =	2.100	2.1766	373,755	11.48%	100.00%	
F0.1 =	0.605	1.7506	1,466,963	45.05%	80.43%	Benchmarks
F20% =	F20% = 1.462		651,218	20.00%	98.10%	
F30% =	1.019	2.0185	976,828	30.00%	92.74%	
* Regulations =	0.376	1.4562	1,880,508	57. 75 %	66.90%	Estimate

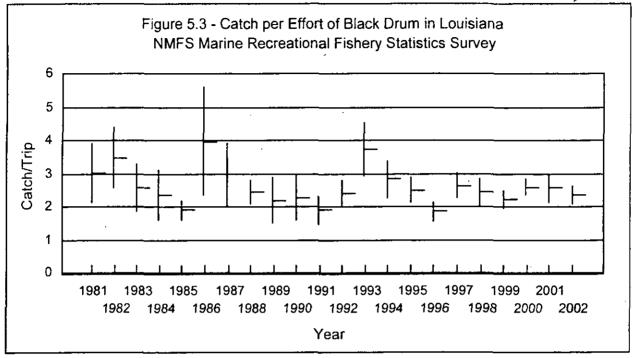
M = 0.2

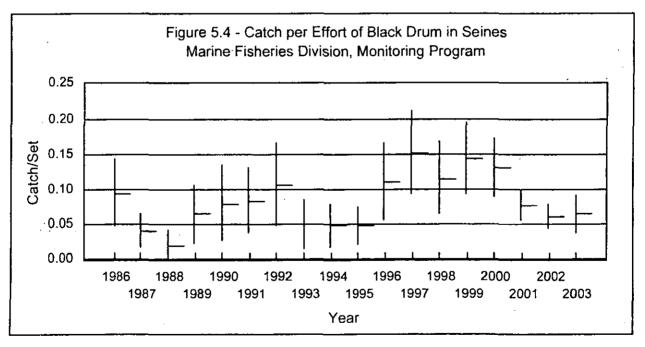
_	F Ratio	YPR SPR		%SPR %YPR		
Fmax =	3.822	1.8101	61,480	3.52%	100.00%	
F0.1 =	1.153	1.5197	545,318	31.22%	83.96%	Benchmarks
F20% =	1.671	1.6792	349,286	20.00%	92.77%	
F30% =	1.199	1.5388	523,929	30.00%	85.01%	
* Regulations =	0.326	0.8173	1,375,910	66.71%	45.36%	Estimate

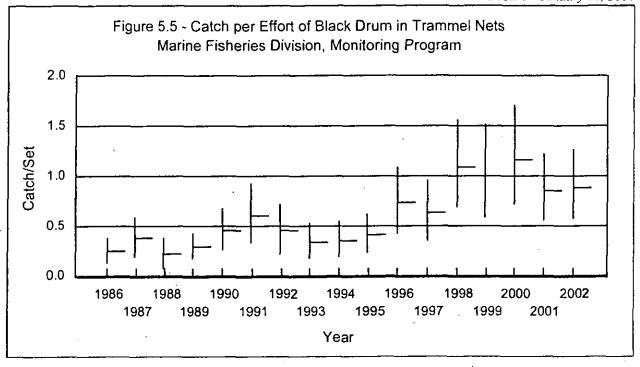
^{*} Regulations prior to 1995 and Act 1316











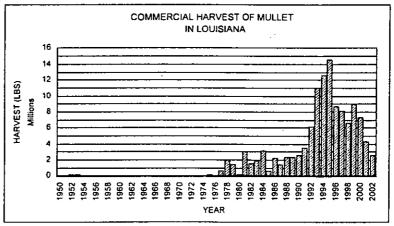
STRIPED MULLET SUMMARY OF CHANGES FROM 2003 ASSESSMENT

This summary is intended to provide a quick reference of substantive changes in methods or corrections in this year's assessment from the 2003 assessment conducted for striped mullet.

• There are no substantive changes in methods from the 2003 assessment.

2004 DOCUMENT HIGHLIGHTS

- 2002 commercial landing of 2.5 million pounds was the lowest harvest since 1991.
- The results of YPR analysis indicate that if M=0.3 (the most conservative value within the range of estimates), the current fishery is operating above F_{0.1} and F_{MAX} with yield of 97 to 99% of maximum, and SPR at 31% to 38%. An M of 0.6



would indicate a more lightly fished stock with yield being 67% to 88% of maximum and with SPR being 62% to 74%.

- It should be noted that the method used in this assessment to determine the status of the stock, reflected in the estimates of disappearance, is not immediately sensitive to changes in regulations. Mullet enter the fishery at age 1 and are fully recruited by age 5. It takes several years of consistent regulations after regulations are imposed before the impact of those regulations can be measured. In the case of mullet it would take 5 years of consistent regulations assuming selectivities of age 5 and older is 100%.
- As a result of having several years of commercial trip ticket data, and collecting recreational fishery statistics data, the department was able to begin a program to representatively sample fishery dependent otoliths in 2002. The program uses trip ticket data and recreational survey data to weight sampling sites for the collection of otoliths for the species of interest. It is expected that this method of otolith sampling will improve stock assessments by providing more accurate annual catch-at-age data.

STRIPED MULLET 5.0 STOCK ASSESSMENT

This assessment uses yield per recruit (YPR), spawning potential ratio (SPR) and catch curve analyses to estimate the impact of current fishing pressure on the potential yield and the spawning potential of the Louisiana striped mullet stock. Estimates of YPR and SPR are based on knowledge of the growth of the fish, and on estimates of the natural mortality rate (M) and fishing pressure (F) on the stock. Catch curve analysis is used to estimate the disappearance rates (Z') from the fishery. The spawning biomass of females is assumed to be the factor limiting the spawning potential of the stock. Therefore, this analysis uses growth rates for female mullet, and considers the effects of fishing on the female portion of the stock. The results of this type of assessment provide a generalized approach for estimating the impact of fishing on the spawning potential and the potential yield of the fish stock. As with any assessment, the results are subject to the limitation of the data from which they are derived. The present analysis should be used only as guidance until more comprehensive analyses, using additional data collected consistently over an extended time span, can be conducted.

The definition of the unit stock must be considered in the development of a stock assessment. While a unit stock is often defined as that portion of the population which is genetically similar, for our purpose in this stock assessment, the most applicable definition seems to be one which considers the unit stock as that portion of the stock which is either dependent on Louisiana waters, or which is available to Louisiana fishermen. We recognize that the geographic distribution implicit in this definition of unit stock is likely to be different from the genetically based definition, given the wide geographic distribution and offshore spawning grounds of the species (Mapes *et al.* 1998). We chose to use this definition because it provides the best picture of the Louisiana fishery, and we do not have information with which to quantitatively define fishing mortality on a regional basis. Information from tagging studies along the west coast of Florida (Mahmoudi, 1991) indicate that once recruited to an estuary, mullet have a strong tendency to return to that estuary after spawning offshore. If this tendency is also expressed in Louisiana, then fishing mortality rates in one area of the state would primarily affect the abundance of the adult population in that area, and not in other areas, unless fishing mortality rates over the entire spawning pool were high enough to affect recruitment on a wide scale.

Estimates of fishing mortality are derived with the knowledge that the existing fishery is not evenly distributed over the entire state, but concentrated in the southeastern region, and mainly east of the Mississippi River (over 80% of the harvest is typically from that region). The analysis must assume that either the distribution of the fishery does not change, or that all fish in the state are equally available to the fishery for predictive yield calculations to be reasonably accurate. Without knowledge of movement of adult mullet over the entire year, it is difficult to infer how much of the population is actually exposed to the fishery. Only that portion exposed to the fishery is described here. In order to reduce problems associated with variable growth rates and variable fishing pressures across the state, information for this assessment was limited to that collected from the easternmost part of the state (East of 90°W longitude).

For purposes of this assessment, we did not consider the effects of recreational harvest on the stock. The best information available at this time indicates that recreational harvest is relatively light, typically less than 200,000 pounds of fish per year (National Marine Fisheries Service, Marine Recreational Fishing Statistics Survey, 1981-2000). Based on the sparse length frequency distribution of surveyed fish, most of the recreational harvest is at a size prior to entry into the commercial fishery. The available data suggest that inclusion of recreational harvest data would not have any appreciable effect on the analyses we used (Table 5.1).

This assessment uses a fishing year beginning in February of one year and running through January of the following year for analysis of fishery-dependent information. Thus, the 1998 fishing year, as defined for this report, consists of February 1998 through January 1999. This is to accommodate the existing season for commercial harvest, which runs from the 3rd Monday in October until the 3rd Monday of the following January. Harvest values are presented for each calendar year rather than fishing year for consistency with other reports.

5.1 Growth and Fecundity

Thompson et al. (1991) described growth of striped mullet from Louisiana waters. They found significant differences in growth rates between sexes of mullet, and in growth rates from different parts of the state. For this assessment, a von Bertalanffy growth equation was developed from aged samples of female striped mullet from East of the Mississippi River provided by Thompson (pers. comm.). Growth rates from this area were used since this area of the state provides the majority of the harvest. We reanalyzed these data, combining them with juveniles assigned to age 0 by length frequency analysis from Louisiana Department of Wildlife and Fisheries' (LDWF) fishery-independent seine samples (Mapes et al. 1998, Figure 2.1). These data were used to estimate a three-parameter von Bertalanffy growth equation:

$$L_{t} = L_{\infty} * (1 - e^{(-k(t-t_{0}))})$$

where L_t is the length at age (t) in years, L_{∞} is the maximum length, k is a parameter describing the rate of growth, and t_0 is the intercept of the function on the time axis. The function was estimated using nonlinear approximation procedure (SAS, 1987). The parameters derived from this method were: L_{∞} =453.9, k=0.332, t_0 =-0.05. These parameters were used in some methods of estimating natural mortality, and for yield estimation.

Samples were assigned ages through use of an age-length key developed from otolith aging of fish by Thompson (unpublished data) and LDWF's ongoing aging study. The age-length key categorized fish in increments of one-inch (25.4 mm) total length. Fish with only fork length measurements available were converted to total length using the equation provided by Thompson et al. (1991) (TL=1.13*FL-3.40, r²=.995). Only data from female mullet was included (males, immature fish, and fish where sex was not recorded were all deleted). Data from purse seine samples from Mississippi waters, and from mullet in the Sabine (LA) Refuge impoundment were deleted from the LSU dataset, as the length/age relationships for these fish are expected to differ

from the fish harvested in the ongoing Louisiana fishery. Most fishery-independent collections were deleted from the dataset for the same reason. However, the age distribution for 11-inch fish was derived from fishery-independent samples since no fishery-dependent ages were available for that size class. This size class represented less than one percent of the total harvest, so any error due to misassignment of ages should have minimal impact on the assessment. In all 3,580 female mullet were used in the development of the age-length-key (Table 5.2).

As noted earlier, the fishery is concentrated in the area east of the Mississippi River, and in the Mississippi River delta. Examination of fishery-dependent age-length keys and length-frequency samples from different areas of the state demonstrated substantial differences in length-frequency and in age-at-length between areas. Therefore only samples taken East of 90°W longitude were included in this assessment. Exclusion of the samples from the remainder of the state should provide a more accurate assessment of the potential yield of this area, where the majority of the fishery operates. Spawning potential ratio (SPR) estimates specifically calculated by this method would not be valid for the state as a whole, but should be more accurate representation of the status of the fished portion of the population in this region.

Fecundity is estimated from the length/fecundity relationship of Thompson et al. (1991) where:

Fecundity=
$$5.6 \times 10^{-3} (FL)^{3.18}$$

Fish were assumed to be sexually mature at age 2.

5.2 Natural Mortality

There was no change in the techniques used or the input parameters for estimation of natural mortality for striped mullet since the development of the 1997 and 1998 reports. The various estimates and the citation describing the methodology used to derive that estimate are listed below.

Citation	Input parameters	Natural Mortality estimate
Pauly (1980)	k =0.332 L_{∞} =453.9 \times water temperature (°C)=22.7	$M_{\text{schooling fish}}$ (est.*0.8)=0.56 M_{clupeids} (est.*0.6)=0.42
Hoenig (1983)	Age _(max) =10	M=0.42
Alagaraja (1984)	99% of fish die by Age 10 99.9 % of fish die by Age 10	M1%=0.46 M0.1%=0.69
Beverton and Holt (1959)	1.5 to 2.5 von Bertalanffy growth parameter (k), k=0.332	M=0.50-0.83

Two estimates of natural mortality (M) are available for striped mullet in the existing literature. Pauly (1980) cites Ih-Hsiu (1970) as reporting an M of 0.31 for male striped mullet from

Taiwan. Mahmoudi (1991) estimated M as 0.30 using tagging data from southwest Florida.

Some investigators (Restrepo et al. 1991, Helser et al. 1992) have attempted to use a range of estimates of M and incorporate variation within this range as a variable in their analyses of other fish species. However, the selection of the range to be used, and the distribution of M estimates within that range remains arbitrary. We have chosen, rather, to select several point estimates of M, and to present the results of changes in the estimate. We have presented estimates based on M values of 0.3, 0.4, 0.5, and 0.6. This provides a feeling for the differences resulting from various estimates of M, without implying any additional precision.

In this report, an M of 0.3 is the most conservative estimate of natural mortality. This estimate may be low, based on the lack of mullet older than 10 years in the Western part of Louisiana, though there was no established mullet fishery in that area when the samples were taken. Using a low value of M results in higher estimates of F in the analysis. If the actual value is above estimates used here, estimates of fishing mortality from catch curve analysis will be lower than estimated here. Additionally estimates of spawning potential ratio at any level of fishing mortality would also be increased, and potential yield will be higher than estimated with that value. A low estimate of M would also increase the harvest age structure required to maximize yield, which could influence proposed size or gear regulations.

5.3 Disappearance Rates and Fishing Mortality

It must be recognized that any estimate of disappearance (Z') from the fishery includes both the total mortality while the fish is exposed to the fishery, and the availability of the fish to the gear. Availability as used here includes both changes in distribution or behavior of the fish that might change effectiveness of the fishery (e.g. migration, food preference, etc.), and size or other selectivity of the gear or fishery. The predominant gear in the Louisiana mullet fishery at the present time is a 3½-4 inch stretch gill net, though some larger mesh sizes are occasionally used (see Mapes et al., 1998). Gill nets are size selective for mullet, therefore estimates of disappearance likely reflect fishing mortality confounded by some degree of gear selectivity. For the present analysis, no estimation of gear selectivity or availability to capture was available for fish past full recruitment.

Length frequency data from the mullet fishery, derived from Trip Intercept Program (TIP) sampling (LDWF unpubl. data), are available for the fishing years 1994-2001. These samples were aged, using an age-length key (Table 5.2).

Catch-at-age from the fishery for the years 1994-2001 was used to derive age-specific selectivities to be used in yield-per-recruit analysis. The method presented in Sparre and Venema (1992) was used to develop selectivities. This method uses a linearized catch curve to determine the selectivity of fish not yet fully recruited to the fishery. The ratio of the observed catches to the expected catches at each age is the probability of capture or selectivity of the fishery at age. Selectivities are then regressed in the equation:

$$ln(1/S_t-1) = T1 - T2 * t$$

where, S_t = the selectivity at age t, and T1 and T2 are constants corresponding to the intercept and slope of the regression. To develop theoretical or estimated selectivities at age the following equation is used:

$$S_1$$
 (estimate) = 1 / (1 + exp(T1 - T2 * t)

Selectivities for ages up to full age-at-recruitment were used to describe the relative fishing mortality to that point; for age at full recruitment and older, selectivities are assumed to be 1, or 100% selected. Selectivities are as follows:

Ages (Females)	Relative selectivity
0 .	0
1	0.0011
2	0.0372
3	0.2616
4	0.7780
5 and over	1.0

Disappearance rates (Z') were derived by regression of the descending arm of the catch curve. The resulting estimates of Z' (X Coefficient) are provided in table 5.3.

These estimates of Z' and relative selectivity could be confounded by variable sizes of cohorts within the fishery. Variation in cohort size could skew the estimate of Z' in either a positive or negative direction, depending on the distribution of the various cohorts within the fishery. Greater recruitment in the older year classes would provide a lower estimate of Z', while if in younger ages, would provide an overestimate of the true value of Z. This uncertainty can only be addressed by use of several years of information on the fishery, and using estimates of Z based on specific cohorts rather than using annual estimates, that run across several cohorts.

5.4 Yield per Recruit

Yield per recruit (YPR) analysis provides basic information about the dynamics of a fish stock by estimating the impact of mortality rates on yield and spawning potential of the stock. The results can be examined as to the sensitivity of natural and fishing mortality rates on yield and spawning potential. The present yield per recruit (YPR) analysis is based on several assumptions. A fish is assumed to consistently recruit to any given fishery at a given age; that is, selectivity by age does not change over time. Partial recruitment of fish is estimated from the relative abundance of age 1 through age 4 fish in the TIP samples compared to age 5 and over fish, which are fully recruited. Once the fish are fully recruited to the fishery, fishing pressure is assumed to be at a constant rate. The present YPR analysis does not take into account any variation in growth rate or

other factors which may affect the results. Use of YPR analysis requires:

- 1) information on natural and fishing mortality rates,
- 2) knowledge of the growth parameters of the fish.

Methods used for estimation of natural mortality (M) and fishing mortality (F) rates in this analysis are presented in Sections 5.2 and 5.3 above. The existing mullet fishery is mainly a roe fishery, targeting female fish (Thompson, 1989). Therefore, we have used the growth parameters for female mullet to calculate yield per recruit.

The results of this analysis are presented in Table 5.4, which contains estimates of F_{MAX} (fishing mortality rate that produces maximum yield), $F_{0.1}$ (fishing mortality rate representing 10% of the slope at the origin of a yield-per-recruit curve), $F_{20\% SPR}$ (fishing mortality that produces 20% SPR), $F_{30\% SPR}$ (fishing mortality that produces 30% SPR), and annual estimates of F from the disappearance rates calculated in Section 5.3. Selectivities patterns of the fishery are recalculated with each additional year of data. Therefore, the results of this analysis, reflected in Table 5.4, could change each year depending on any change in selectivity patterns in the fishery.

5.5 Conservation Standard

Conservation standards are based on one of a number of biological measures of the dynamics of fish stocks, that are intended to protect the viability of that stock for future generations. These standards have historically been based on different measures of the dynamics of fish stocks, depending on the data available, the needs of fishery and of the resource. Conservation standards should be separated into two types: a conservation threshold which is entirely biologically based, and a conservation target which considers biological measures modified by relevant social, economic, and ecological factors.

Conservation "thresholds" are intended to provide a biological baseline for harvest of a fish stock based on stock recruit relationships, or other biological parameters specific to the stock, if possible. This baseline standard, below which the stock should not be allowed to go, has been described as a "threshold" by some researchers, and has also been referred to as an "overfishing level" (GMFMC 1995). Beyond this "threshold", management "targets" may be set, which provide for other management goals in the fishery. Such goals may be in terms of yield in weight, yield in numbers of fish, catch rate per effort, harvest rate per effort, employment, profit, or some other goal. These targets must be set at a fishing rate below the "threshold" in order to ensure that the biological integrity of the stock is not unduly compromised by fishing.

Recently, use of a stock measure, spawning stock biomass per recruit (SSBR) or spawning potential ratio (SPR) has become widely used. This measure compares the estimated female spawning biomass of the stock that survive fishing with the estimated biomass of the stock under unfished conditions. The analysis does not take into account any density-dependent relationships due to the changes in the size of the fished stock. Using the Spawning Potential Ratio (SPR) concept as developed by Gabriel et al. (1984) and refined by Goodyear (1991), a "threshold" value can be

defined that provides a minimum spawning stock biomass (or egg production) per recruit, below which existing data cannot evaluate impacts to future recruitment, and below which the fishery should not be allowed to operate.

Ideally, "threshold" levels should be evaluated from information on the stock in question. However, the information base necessary to adequately describe this level is often not available. In such cases, it has been recommended by Goodyear (1989) that a spawning stock biomass per recruit (SSBR) or SPR of 20% be used as a "threshold" in absence of sufficient evidence to provide a standard specific to the stock in question. This standard is also based on work on North Atlantic groundfisheries (Gabriel et al. 1984, Gabriel, 1985). A SSBR of 35% has been recommended for Spanish mackerel, and 20% for king mackerel (GMFMC 1990, 1995). A SSBR of 8-13% has been demonstrated to be sufficient for Gulf menhaden (Vaughan 1987). In prior analyses of the Louisiana spotted seatrout fisheries (LDWF 1991), we recommended an SPR of 15% after analysis of several years of available data. Mace and Sissenwine (1993) examined 90 stocks of 27 species, and recommended that 30% SPR be maintained when there is no other basis for estimating the replacement level. That level is sufficient for 80% of the stocks considered by those authors. They also noted that 30% may be overly conservative for an "average" stock. The average replacement %SPR for the stocks they considered was 18.7% while the most resilient quarter of the stocks considered required a maximum FREP of 8.6% SPR. Three-quarters of the stocks required a maximum FREP of 27.1% SPR. In a prior assessment of striped mullet (Shepard et al., 1992), a SPR of 20% was recommended as the conservation standard for the Louisiana fishery. This standard was considered, rather than 30% SPR, due to several factors: the fishery is mainly prosecuted on the stocks of mullet east of the Mississippi River, and the estimate of SPR is based on only the fished stocks. The relatively unfished stocks to the west of the Mississippi River are only minimally considered in the assessment, with the result that the SPR ratios are underestimated.

Sufficient information is not available to directly estimate a conservation threshold for striped mullet in Louisiana. However, the conservation target of 30% SPR established by Act 1316 of the 1995 Regular Session of the Louisiana Legislature for black drum sheepshead, southern flounder and striped mullet appear to be adequate to maintain the striped mullet stock and prevent recruitment overfishing.

The use of any measure of health of a fish stock as a perfect index is arguable. Intuitively it seems more logical that growth overfishing would occur at a much lower fishing rate than would threaten recruitment. However, Mace and Sissenwine (1993) provide information to suggest that some stocks may have reduced levels of recruitment at levels of fishing that would not reduce yield per recruit. The preferable position for making recommendations on appropriate levels of fishing for a stock is to base those recommendations on actual measures of spawning stock and recruitment for that species, in the same fishery. This requires a base of information on that fishery that requires monitoring of both the stock and the fishery over a variety of conditions. Without this information, inappropriate conservation standards may either underestimate or overestimate the potential of the fishery. If the potential is underestimated, the society loses the economic and social benefits of the harvest. If the potential is overestimated, the society also loses the benefits of a sustainable fishery, which must at least go through some period of rebuilding, when effort must be reduced from the

5.6 Status of the Stock

The trends in harvest for striped mullet in the Louisiana fishery have been reviewed by Mapes et al. (1998). Commercial landings prior to 1991 was obtained from NMFS's General Canvass Landing Program, from 1991 through 1998 landings was collected through the LDWF's Monthly Dealer Reports and from 1999 to present LDWF's Commercial Reporting Requirement "Trip Tickets" program is utilized to gather this type of data. Recreational landings was obtained through the NMFS's Marine Recreational Fishery Statistics Survey. Harvest increased in the early 1990's, as the commercial roe fishery continued to develop (Figure 5.1). Harvest declined after 1995 as a direct result of regulations implemented August, 1995 eliminating the harvest of mullet outside of the period between the third Monday in October through the middle of the following January. Regulations also outlawed fishing for mullet at night, on weekends, in freshwater areas, and using gear other than strike gill nets. Legislation allowing the use of hoop nets in freshwater areas for taking mullet was legalized in 1999. The law required that no leads be used on the hoop nets, no harvest or possession of mullet from between the hours of official sunset and official sunrise, and mullet caught in the freshwater areas of the state could not be possessed by commercial fishermen in the saltwater areas of the state. Three legislative acts were passed in 2001: Act 51 defined certain portion of the Intracoastal waterway, from the overhead power lines at the Interharbor Navigation Canal east to the Rigolets, in Orleans Parish as saltwater and freshwater for the purposes of possessing regulated gear and allows the harvest of mullet in that area in addition to a portion of Lake Pontchartrain located south and east of the I-10 bridge as long as commercial fishing operations in these waters will not interfere with normal commercial traffic; Act 116 statutorily created a mullet task force to advise LDWF on certain issues; and Act 147 adopted a three-strikes and you are out penalty system within the commercial mullet fishery: first conviction, one year permit suspension, second conviction two years suspension, third conviction lifetime permit ban.

Annual recruitment of mullet has been evaluated from fishery-independent seine and experimental gill net samples taken statewide since 1986. Catch/effort information are compiled for January through May of each year, and the abundance is measured as ln(catch/effort)+1. Seine catches of fish larger than young-of-the-year (>70 mm) are removed from the calculation of abundance indices (Figure 5.2). Gill net data from 2", 2.5", and 3" (5.08, 6.35, and 7.62 cm.) stretch mesh panels are used to provide relative abundance indices of mullet prior to harvest by legal saltwater commercial gears (Figures 5.3A-D).

Seine CPUE indices show higher mean catches of young-of-the-year (YOY) from 1996 through 2001 of the seventeen years examined (1987-2003) but the 2002 and 2003 CPUE are consistent with levels prior to 1996. There appears to be no long term downward trend in YOY indices for the years examined. Gill net CPUE indices seem to cycle throughout the period examined with relatively lower mean estimates of CPUE after 1998 (Figure 5.4D). There is some question however, after reviewing the relatively consistent annual pattern of different mesh sizes, whether the gill net samples actually measure relative abundance or simply measure annual availability to the sampling gear. One would expect to find more annual variation among mesh sizes

as fish grew and became increasingly available to the larger mesh size. The three mesh sizes, standardized to their mean, are presented in figure 5.4D. There does seem to be an annual pattern found between the mesh sizes with the last five years being relatively lower than previous years.

The results of YPR analysis indicate that if M=0.3 (the most conservative value within the range of estimates), the current fishery is operating above $F_{0.1}$ and F_{MAX} with yield of 97 to 99% of maximum, and SPR at 31% to 38%. An M of 0.6 would indicate a more lightly fished stock with yield being 67% to 88% of maximum and with SPR being 62% to 74%.

In all of these analyses, assumptions listed in prior sections of this report have a strong influence in the results. If M is actually near or above the upper end of the range considered here then increases in yield per recruit would be possible, and SPR would be above the minimum estimated values. Estimates of potential yield presented here do not account at all for potential extension of the fishery into areas of the state that do not now have a significant fishery. Any substantive change in geographic distribution of the fishery could substantially change the overall harvest levels.

Based on this generalized assessment, for all natural mortality rates examined, if fishing mortality rates continue at the current levels, then striped mullet are not being harvested at a rate that would drive the stock below the target SPR of 30% established by the Louisiana Legislature.

5.7 Research and Data Needs

As with any analysis, the accuracy of the assessment is dependent on the accuracy of the information on which it is based. The present analyses, along with the biological data presented by Mapes *et al.* (1998) identify several areas for research to address.

Estimates of natural mortality used in the present assessment are derived from general literature sources, and show wide variation. This variation reduces the potential of the present assessment to provide a precise prediction of the yield potential of the stock, and also reduces the confidence level of the present estimate of SPR. A more precise estimate of natural mortality, based on Louisiana data, would assist in both of these problems.

Definition of sub-populations based on migratory patterns would help define exploitation rates within different areas of the state. This may help managers develop area-specific management to optimize yield from a given stock, while protecting the stock from over-harvest.

Recruitment mechanisms are poorly defined for the species. Mullet are suspected to spawn beyond the shelf break in the central Gulf of Mexico. No genetically distinct stocks have been identified within the Gulf. However, lack of genetic distinctness does not necessarily mean that stocks are homogeneously mixed by spawning and recruitment mechanisms, only that populations are not so removed from each other that gene structure is identifiably different. Better understanding of recruitment mechanisms, merged with measurement of oceanographic or other driving forces

could help in understanding the sub-genetic distinctiveness of mullet populations from different regions of the state of the Gulf of Mexico.

Factors that influence the year-class strength of mullet are essentially unknown. Investigation of these factors could help better define causes of inter-annual variation in abundance, and perhaps also the underlying stock-recruit relationships in the species.

The relationship between wetlands losses or modifications and the continuation of fishery production within the state has been discussed by many authors. However, this relationship is likely to be different for any of a suite of different species. Understanding of this relationship for mullet should be an ongoing priority.

In the presence of changing regulations, fishery-dependent information is not a reliable source of the data necessary to assess the status of a fish stock. However, such data is necessary to measure the effects of fishing on that stock. Consistent fishery-dependent and fishery-independent data sources, in a comprehensive monitoring plan, are essential to understanding the status of fishery stocks, and to identifying causes of changes in stock abundance. Present programs should be assessed for adequacy with respect to their ability to evaluate stock status, and modified or enhanced to optimize their capabilities.

Literature Cited

- Alagaraja, D. 1984. Simple methods for estimation of parameters for assessing exploited fish stocks. Indian J. Fish., 31:177-208
- Beverton, R.J.H. and S.J. Holt, 1959. A review of the lifespans and mortality rates of fish in nature, and their relation to growth and other physiological characteristics. *In*: G.E.W. Wolstenholme and M. O'Conner, (*eds.*) The Lifespan of Animals. CIBA Foundation, Colloquia on Ageing, Vol 5: 142-180.
- Conservation and Utilization Division, Northeast Fisheries Science Center. 1993. Status of fishery resources off the Northeastern United States for 1993. NOAA Tech. Mem. NMFS-F/NEC-101. 140 pp.
- GMFMC 1995. Draft Supplemental Environmental Impact Statement (SEIS): Amendment 8 to the Fishery Management Plan for Coastal Migratory Pelagic Resources in the Gulf of Mexico and South Atlantic. Draft of 10/25/95, Gulf of Mexico Fishery Management Council and South Atlantic Fishery Management Council. 84 pp.+3 pp. appendix.
- Goodyear, P. 1995. Mean size at age: an evaluation of sampling strategies with simulated red grouper data. Trans. Am. Fish. Soc. 124(5):746-755.
- Helser, T. and R. E. Condrey. 1992. A Monte Carlo-based virtual population simulation for incorporating uncertainty into estimates of spawning potential ratios. Ph.D. Thesis (chapter), LSU, Baton Rouge. 26 pp. + 3 tab., 11 fig.
- Hilborn, R and C. J. Walters 1992. Quantitative Fisheries Stock Assessment: Choice, Dynamics and Uncertainty. Chapman and Hall, N.Y. 570 pp.
- Hoenig, J.M. 1983. Empirical use of longevity data to estimate mortality rates. Fish. Bull. 81(4):898-903
- Leard, R., B. Mahmoudi, H. Blanchet, H. Lazauski, K. Spiller, M. Buchanan, C. Dyer and W. Keithly. 1995. The striped mullet fishery of the Gulf of Mexico, United States: A regional management plan. Gulf States Marine Fisheries Commission Publ. No. 33.
- Mace, P.M. and M. P. Sissenwine. 1993. How much spawning per recruit is enough? pp. 101-118
 in: S. J. Smith, J. J. Hunt and D. Rivard (eds.) Risk Evaluation and Biological Reference
 Points for Fisheries Management. Can. Spec. Publ. Fish. Aq. Sci. 120. 442 pp.
- Mapes, K. A., R. Bejarano, J. F. Burdon and B. McManus. 1998. A biological and fisheries profile for striped mullet, *Mugil cephalus* in Louisiana. La. Dept. of Wildl. & Fish., Office of Fisheries, Fishery Management Plan Series No. 5, Part 1.

- Mahmoudi, B. 1989. Population assessment of black mullet (*Mugil cephalus*) in the eastern Gulf of Mexico. Final Report of Cooperative Agreement (MARFIN) NA86-WC-H-06138. 89 pp.
- Mahmoudi, B. 1991. Population assessment of black mullet (*Mugil cephalus*) in the eastern Gulf of Mexico. Final Report of Cooperative Agreement (MARFIN) NA90-WC-H-MF003. 69 pp.
- Mahmoudi, B. 1992. Update on black mullet stock assessment. Final report submitted to the Florida Marine Fisheries Commission. 58 pp.
- Mapes, K., R. Bejarano J. F. Burdon and L.B. Savoie. 1996. A biological and fisheries profile for striped mullet (*Mugil cephalus*) in Louisiana. La. Dept. of Wildlife and Fisheries, Office of Fisheries. Fisheries Management Plan Series No. 5, Pt. 1. 83 pp.
- Pauly, D. 1980. On the interrelationships between natural mortality, growth parameters, and mean environmental temperature in 175 fish stocks. J. Cons. int. Explor. Mer 39(2):175-192.
- Restrepo, V. R., J. E. Powers, and S. C. Turner. 1991. Incorporating uncertainty in VPA results via simulation. ICCAT Coll. Vol. Sci. Pap. 35(2)355-361.
- SAS, 1987. SAS/STAT guide for personal computers, Version 6 edition. SAS Inst., Cary, N.C. 1028 pp.
- Shepard, J.A., H. Blanchet, D. Johns and K. Mapes. 1992. A stock assessment and management plan for Louisiana striped mullet (*Mugil cephalus*). Ch. 4-8 in: A fisheries management plan for Louisiana striped mullet, (*Mugil cephalus*). 74 pp.
- Sparre, P. and S.C. Venema. 1992. Introduction to Tropical Fish Stock Assessment, Part 1 Manual. FAO Fish. Tech. Pap. 306/1, Revision 1. 376 pp.
- Thompson, B. A., J. H. Render and R. L. Allen. 1989. Life history and population dynamics of commercially harvested striped mullet <u>Mugil cephalus</u> in coastal Louisiana. Final Report Board of Regents' Rockefeller Fund Interest Earnings Grant Program. Coastal Fisheries Institute. LSU-CFI-89-01. 80 pp.
- Thompson, B. A., J. H. Render, R. L. Allen and D.L. Nieland. 1991. Fisheries independent characterization of population dynamics and life history of striped mullet in Louisiana. Final Report, MARFIN project NA90AA-H-MF-113. 92 pp.
- Tung, Ih-Hsiu. 1970. Studies on the fishery biology of the grey mullet, *Mugil cephalus* Linnaeus, in Taiwan. pp. 497-504 in: J.C. Marr (ed.) The Kuroshio: a symposium on the Japan current. East-West Center Press, Honolulu. 614 pp.

Table 5.1. Annual commercial and recreational harvest of mullet from Louisiana waters, expressed in pounds. Commercial harvest values from dealer landings reports, recreational harvest from NMFS MRFSS estimates of fish landed plus those discarded dead.

	Commercial	Recreational	Total Harvest	
Year	Harvest	Harvest	(lbs.)	%
	(lbs.)	(lbs.)		Commercial
1981	3,051,461	564	3,052,025	99.98%
1982	1,533,452	16,546	1,549,998	98.93%
1983	1,886,654	0	1,886,654	100.00%
1984	3,157,215	2,793	3,160,008	99.91%
1985	579,297	7,504	586,801	98.72%
1986	2,277,713	52,921	2,330,634	97.73%
1987	1,439,425	0	1,439,425	100.00%
1988	2,367,106	105,876	2,472,982	95. 7 2%
1989	2,413,768	75,287	2,489,055	96.98%
1990	2,645,927	296,111	2,942,038	89.94%
1991	3,563,137	26,303	3,589,440	99.27%
1992	6,214,532	121,273	6,335,805	98.09%
1993	11,026,497	185,012	11,211,509	98.35%
1994	12,560,261	97,509	12,657,770	99.23%
1995	14,545,610	89,626	14,635,236	99.39%
1996	8,658,881	216,838	8,875,719	97.56%
1997	8,083,201	129,917	8,213,118	98.42%
1998	6,252,317	15,459	6,267,776	99.75%
1999	8,954,299	48,766	9,003,065	99.46%
2000	7,252,017	88,202	7,340,219	98.80%
2001	4,260,650	115,618	4,376,268	97.36%
2002	2,555,181	58,901	2,614,082	97.75%

Table 5.2 - Age-at-Length distribution of female striped mullet used in age-length key development.

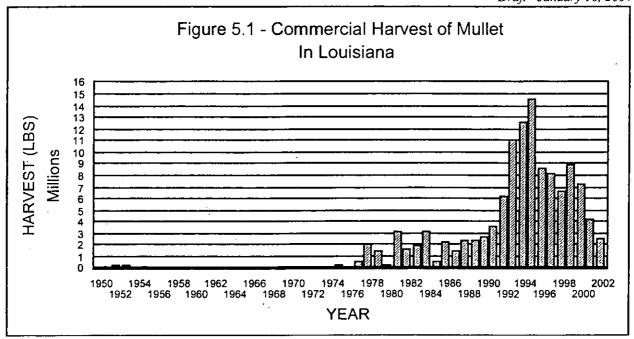
Length					Age						
(inches)	1	2	3	4		6	7	8	9	10	Total
10	18	67	7	1			1				94
11	2	76	52	12	3						145
12	9	105	153	87	18	5	1				378
13	12	110	251	195	79	22	2	3			674
14	12	74	200	225	131	34	9	3			688
15	4	46	137	151	89	41	10	9	1	1	489
16	1	49	116	122	67	26	8	1	1		391
17		30	100	111	55	18	4	2	_ 1		321
18	1	6	47	71	34	11	5	1	1		177
19	. 1	. 2	16	47	32	7	4				109
20		1	3	15	23	14	6				62
21			1	3	4	4	2		2	1	17
22				2	3	4	5	1			15
. 23			1		3	2	3				9
24					5	3	3				11
All	60	566	1084	1042	546	191	63	20	6	2	3580

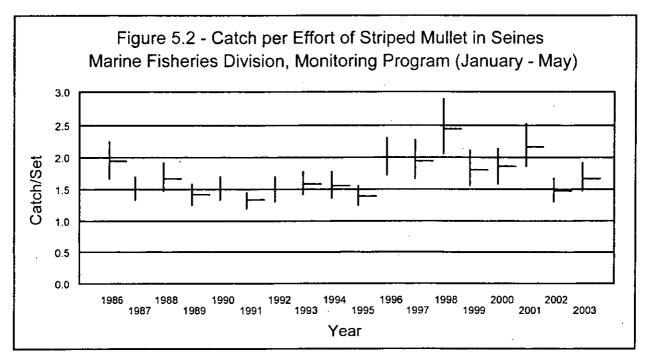
Table 5.3 Regression Output from the Estimation of Disappearance Rates

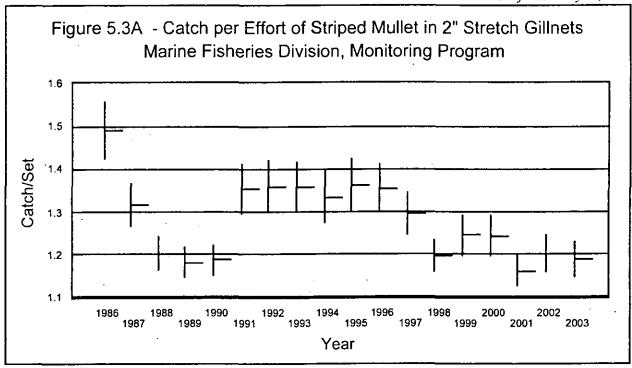
1994			1995			
Regression	Output:			Regression	Output:	
Constant		18.5503	Constant			19.224847
Std Err of Y Est		0.4624425	Std Err of Y	' Est		0.2586424
R Squared		0.9702872	R Squared		•	0.989781
No. of Observations		8	No. of Obse			7
Degrees of Freedom		6	Degrees of	Freedom		5
X Coefficient(s)	-0.99882		X Coefficien	it(s)	-1.07565	
Std Err of Coef.	0.0713564		Std Err of C	oef.	0.0488788	•
1996			1997			
Regression	Outnut:		1557	Regression	Output:	
Constant	output.	18.566267	Constant	regression	Output.	18.432739
Std Err of Y Est		0.156	Std Err of Y	Fet		0.1661209
R Squared		0.9959516	R Squared			0.9953224
No. of Observations		7	No. of Obse	ervations		7
Degrees of Freedom		5	Degrees of			5
		•				ŭ
X Coefficient(s)	-1.033969		X Coefficien	t(s)	-1.024001	
Std Err of Coef.	0.0294812		Std Err of C	oef.	0.0313939	
1998			1999			
Regression (Output:		.000	Regression	Output:	
Constant		18.855665	Constant			18.114605
Std Err of Y Est		0.4101676	Std Err of Y	Est '		0.5090718
R Squared		0.9778915	R Squared			0.95371
No. of Observations		7	No. of Obse	rvations		7
Degrees of Freedom	• •	5	Degrees of			5
X Coefficient(s)	-1.152746		X Coefficien	t(s)	-0.976449	·
Std Err of Coef.	0.0775144		Std Err of C	oef.	0.0962055	
2000			2001			
Regression (Dutout:		200.	Regression (Output:	
Constant		17.448049	Constant	g		19.668877
Std Err of Y Est		0.6605562	Std Err of Y	Est		0.4369422
R Squared		0.911813	R Squared			0.9765425
No. of Observations	·	7	No. of Obse	rvations		7
Degrees of Freedom		5	Degrees of I	reedom		5
X Coefficient(s)	-0.897566		X Coefficient	:(s)	-1.191336	
Std Err of Coef.	0.1248334		Std Err of C		0.0825743	-
2002						
Regression (Outout:		•			
Constant	•	17.317255				
Std Err of Y Est		0.5820545				
R Squared		0.9585603				
No. of Observations		8				
Degrees of Freedom		. 6				
• • • • • • • • • • • • • • • • • • • •		•				
X Coefficient(s)	-1.058074					•
Std Err of Coef.	0.089813					

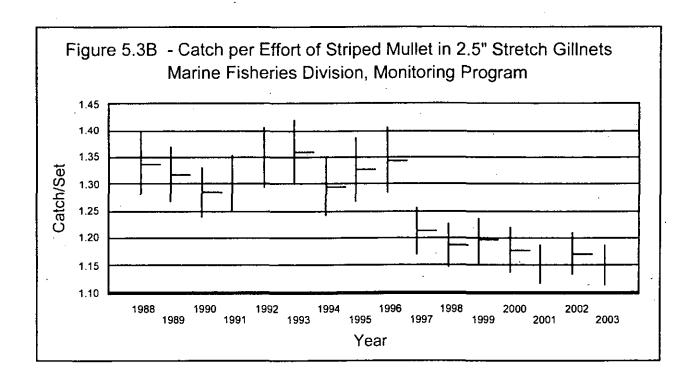
Table 5.4 - Results of Yield per Recruit and SPR Analysis for Mullet

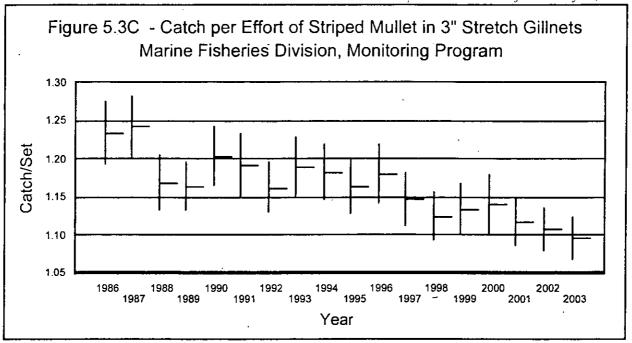
M=0.3							
		F - Ratio	YPR.	SPR	%SPR_	%YPR	
	F-max	0.5850	85.6159	439,818	38.85%	100.00%	
	F0.1 ⊨	0.3053	78.9245	601,324	53.11%	92.18%	
	F20% =	2.2571	68.5867	226,433	20.00%	80.11%	Benchmarks
	F30% =	0.9735	82.1891	339,650	30.00%	96.00%	
	1997 =	0.7240	84.9626	394,645	34.86%	99.24%	
	1998 =	0.8527	83.6619	363,137	32.07%	97.72%	
	1999 =	0.6764	85.3078	408,540	36.08%	99.64%	Estimate
	2000 =	0.5976	85.6091	435,118	38.43%	99.99%	
	2001 =		83.2078	355,092	31.36%	97.19%	,
	2002 늭	0.7581	84.6615	385,510	34.05%	98.89%	
M=0.4		F - Ratio	YPR	SPR	%SPR	%YPR	
,a = 0.77	F-max =		50.0885	250,745	41.58%	100.00%	-
	F0.1 =		45.6088	339,417	56.29%	91.06%	
	F20% =		39.3975	120,602	20.00%	78.66%	Benchmarks
	F30% =		46.7168	180,903	30.00%	93.27%	
	1997 =	0.6240	49.5523	279,996	46.43%	98.93%	
	1998 =	0.7527	50.0475	258,704	42.90%	99.92%	
	. 1999 =	0.5764	49.1670	289,377	47.99%	98.16%	Estimate
	2000 =	0.4976	48.1690	307,309	50.96%	96.17%	
	2001 =	0.7913	50.0844	253,262	42.00%	99.99%	
	2002 =		49.7514	273,826	45.41%	99.33%	·
•	•						
M=0.5	_	F - Ratio	YPR	SPR	%SPR	%YPR	
	F						
	F-max =	1.1278	30.6657	151,911	44.19%	100.00%	
	F-max =		30.6657 27.5558	151,911 205,191	44.19% 59.69%	100.00% 89.86%	
	H	0.4801		205,191 68,757	59.69% 20.00%	89.86% 79.19%	Benchmarks
	F0.1 =	0.4801 8.7085 3.1856	27.5558 24.2838 28.2872	205,191 68,757 103,136	59.69% 20.00% 30.00%	89.86% 79.19% 92.24%	Benchmarks
	F0.1 = F20% = F30% = 1997 =	0.4801 8.7085 3.1856 0.5240	27.5558 24.2838 28.2872 28.1728	205,191 68,757 103,136 199,371	59.69% 20.00% 30.00% 57.99%	89.86% 79.19% 92.24% 91.87%	Benchmarks
	F0.1 = F20% = F30% = 1997 = 1998 =	0.4801 8.7085 3.1856 0.5240 0.6527	27.5558 24.2838 28.2872 28.1728 29.4285	205,191 68,757 103,136 199,371 184,977	59.69% 20.00% 30.00% 57.99% 53.81%	89.86% 79.19% 92.24% 91.87% 95.97%	
	F0.1 = F20% = F30% = 1997 = 1998 = 1999 =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983	205,191 68,757 103,136 199,371 184,977 205,706	59.69% 20.00% 30.00% 57.99% 53.81% 59.84%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67%	Benchmarks Estimate
	F0.1 = F20% = F30% = 1997 = 1998 = 1999 = 2000 =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764 0.3976	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983 26.0199	205,191 68,757 103,136 199,371 184,977 205,706 217,807	59.69% 20.00% 30.00% 57.99% 53.81% 59.84% 63.36%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67% 84.85%	
	F0.1 = F20% = F30% = 1997 = 1998 = 2000 = 2001 =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764 0.3976 0.6913	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983 26.0199 29.6840	205,191 68,757 103,136 199,371 184,977 205,706 217,807 181,294	59.69% 20.00% 30.00% 57.99% 53.81% 59.84% 63.36% 52.73%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67% 84.85% 96.80%	
	F0.1 = F20% = F30% = 1997 = 1998 = 1999 = 2000 =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764 0.3976	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983 26.0199	205,191 68,757 103,136 199,371 184,977 205,706 217,807	59.69% 20.00% 30.00% 57.99% 53.81% 59.84% 63.36%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67% 84.85%	
M= 0.6	F0.1 = F20% = F30% = 1997 = 1998 = 2000 = 2001 =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764 0.3976 0.6913	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983 26.0199 29.6840	205,191 68,757 103,136 199,371 184,977 205,706 217,807 181,294	59.69% 20.00% 30.00% 57.99% 53.81% 59.84% 63.36% 52.73%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67% 84.85% 96.80%	
M=0.6	F0.1 = F20% = F30% = 1997 = 1998 = 2000 = 2001 =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764 0.3976 0.6913 0.5581	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983 26.0199 29.6840 28.5771	205,191 68,757 103,136 199,371 184,977 205,706 217,807 181,294 195,203	59.69% 20.00% 30.00% 57.99% 53.81% 59.84% 63.36% 52.73% 56.78%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67% 84.85% 96.80% 93.19%	
M=0.6	F0.1 = F20% = F30% = 1997 = 1998 = 1999 = 2000 = 2001 = 2002 =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764 0.3976 0.6913 0.5581	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983 26.0199 29.6840 28.5771	205,191 68,757 103,136 199,371 184,977 205,706 217,807 181,294 195,203	59.69% 20.00% 30.00% 57.99% 53.81% 59.84% 63.36% 52.73% 56.78%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67% 84.85% 96.80% 93.19%	
M=0.6	F0.1 = F20% = F30% = 1997 = 1998 = 1999 = 2000 = 2001 = 2002 =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764 0.3976 0.6913 0.5581 F - Ratio 1.6698	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983 26.0199 29.6840 28.5771 YPR 19.5110	205,191 68,757 103,136 199,371 184,977 205,706 217,807 181,294 195,203 SPR 94,370	59.69% 20.00% 30.00% 57.99% 53.81% 59.84% 63.36% 52.73% 56.78% %SPR 45.56%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67% 84.85% 96.80% 93.19% %YPR 100.00%	
M=0.6	F0.1 = F20% = F30% = 1997 = 1998 = 1999 = 2000 = 2001 = 2002 = F-max = F0.1 =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764 0.3976 0.6913 0.5581 F - Ratio 1.6698 0.5889	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983 26.0199 29.6840 28.5771 YPR 19.5110 17.2172	205,191 68,757 103,136 199,371 184,977 205,706 217,807 181,294 195,203 SPR 94,370 130,425	59.69% 20.00% 30.00% 57.99% 53.81% 59.84% 63.36% 52.73% 56.78% %SPR 45.56% 62.97%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67% 84.85% 96.80% 93.19% %YPR 100.00% 88.24%	Estimate
M=0.6	F0.1 = F20% = F30% = 1997 = 1998 = 1999 = 2001 = 2002 = F-max = F0.1 = F20% =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764 0.3976 0.6913 0.5581 F - Ratio 1.6698 0.5889 14.9721	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983 26.0199 29.6840 28.5771 YPR 19.5110 17.2172 15.6350	205,191 68,757 103,136 199,371 184,977 205,706 217,807 181,294 195,203 SPR 94,370 130,425 41,424	59.69% 20.00% 30.00% 57.99% 53.81% 59.84% 63.36% 52.73% 56.78% %SPR 45.56% 62.97% 20.00%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67% 84.85% 96.80% 93.19% WYPR 100.00% 88.24% 80.13%	Estimate
M=0.6	F0.1 = F20% = F30% = 1997 = 1998 = 1999 = 2000 = 2001 = 2002 = F-max = F0.1 = F20% = F30% =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764 0.3976 0.6913 0.5581 F - Ratio 1.6698 0.5889 14.9721 5.5549	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983 26.0199 29.6840 28.5771 YPR 19.5110 17.2172 15.6350 18.3016	205,191 68,757 103,136 199,371 184,977 205,706 217,807 181,294 195,203 SPR 94,370 130,425 41,424 62,137	59.69% 20.00% 30.00% 57.99% 53.81% 59.84% 63.36% 52.73% 56.78% %SPR 45.56% 62.97% 20.00% 30.00%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67% 84.85% 96.80% 93.19% **YPR 100.00% 88.24% 80.13% 93.80%	Estimate
M= 0.6	F0.1 = F20% = F30% = 1997 = 1998 = 1999 = 2000 = 2002 = F-max = F0.1 = F20% = F30% = 1997 =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764 0.3976 0.6913 0.5581 F - Ratio 1.6698 0.5889 14.9721 5.5549 0.4240	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983 26.0199 29.6840 28.5771 YPR 19.5110 17.2172 15.6350 18.3016 15.4430	205,191 68,757 103,136 199,371 184,977 205,706 217,807 181,294 195,203 SPR 94,370 130,425 41,424 62,137 142,500	59.69% 20.00% 30.00% 57.99% 53.81% 59.84% 63.36% 52.73% 56.78% %SPR 45.56% 62.97% 20.00% 30.00% 68.80%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67% 84.85% 96.80% 93.19% %YPR 100.00% 88.24% 80.13% 93.80% 79.15%	Estimate
M=0.6	F0.1 = F20% = F30% = 1997 = 1998 = 2000 = 2001 = 2002 = F-max = F0.1 = F20% = F30% = 1997 = 1998 =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764 0.3976 0.6913 0.5581 F - Ratio 1.6698 0.5889 14.9721 5.5549 0.4240 0.5527	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983 26.0199 29.6840 28.5771 YPR 19.5110 17.2172 15.6350 18.3016 15.4430 16.9091	205,191 68,757 103,136 199,371 184,977 205,706 217,807 181,294 195,203 SPR 94,370 130,425 41,424 62,137 142,500 132,766	59.69% 20.00% 30.00% 57.99% 53.81% 59.84% 63.36% 52.73% 56.78% %SPR 45.56% 62.97% 20.00% 30.00% 68.80% 64.10%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67% 84.85% 96.80% 93.19% WYPR 100.00% 88.24% 80.13% 93.80% 79.15% 86.66%	Estimate Benchmarks
M=0.6	F0.1 = F20% = F30% = 1997 = 1998 = 2000 = 2001 = 2002 = F-max = F0.1 = F20% = F30% = 1997 = 1998 = 1999 =	0.4801 8.7085 3.1856 0.5240 0.6527 0.4764 0.3976 0.6913 0.5581 F - Ratio 1.6698 0.5889 14.9721 5.5549 0.4240 0.5527 0.3764	27.5558 24.2838 28.2872 28.1728 29.4285 27.4983 26.0199 29.6840 28.5771 YPR 19.5110 17.2172 15.6350 18.3016 15.4430 16.9091 14.7098	205,191 68,757 103,136 199,371 184,977 205,706 217,807 181,294 195,203 SPR 94,370 130,425 41,424 62,137 142,500 132,766 146,779	59.69% 20.00% 30.00% 57.99% 53.81% 59.84% 63.36% 52.73% 56.78% %SPR 45.56% 62.97% 20.00% 30.00% 68.80% 64.10% 70.87%	89.86% 79.19% 92.24% 91.87% 95.97% 89.67% 84.85% 96.80% 93.19% **YPR 100.00% 88.24% 80.13% 93.80% 79.15% 86.66% 75.39%	Estimate Benchmarks

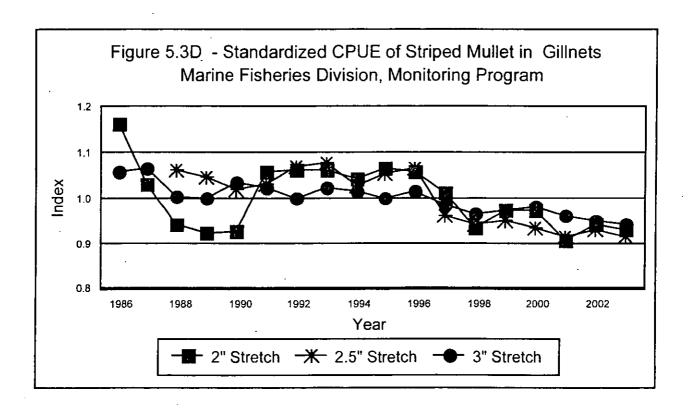












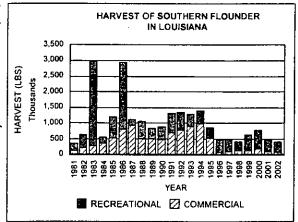
SOUTHERN FLOUNDER SUMMARY OF CHANGES FROM 2003 ASSESSMENT

This summary is intended to provide a quick reference of substantive changes in methods or corrections in this year's assessment from the 2003 assessment conducted for southern flounder.

• There are no substantive changes in methods from the 2003 assessment.

2004 DOCUMENT HIGHLIGHTS

- The 2002 combined commercial and recreational harvest of 400,358 pounds was below all years from 1995 to 2002. Regulations implemented between 1995 and 1997 have caused significant reductions in the commercial harvest.
- The results of YPR analysis indicate that if M=0.5 (the most conservative value within the range of estimates), the fishery in the years assessed (1997 2002) was operating between F_{0.1} and F_{MAX}, with yields of 93% to 95% of maximum and SPR at 27% to 29%.



An M of 0.8 (the highest value within the range examined) would produce yields of 57% to 60% of maximum with SPR at 50% to 54%.

- It should be noted that the method used in this assessment to determine the status of the stock, reflected in the estimates of disappearance, is not immediately sensitive to changes in regulations. Southern flounder enter the fishery at age 0 and are fully recruited by age 2. It takes several years of consistent regulations after regulations are imposed before the impact of those regulations can be measured. In the case of southern flounder it would take 3 years of consistent regulations assuming selectivities of age 2 and older is 100%.
- As a result of having several years of commercial trip ticket data, and collecting recreational fishery statistics data, the department was able to begin a program to representatively sample fishery dependent otoliths in 2002. The program uses trip ticket data and recreational survey data to weight sampling sites for the collection of otoliths for the species of interest. It is expected that this method of otolith sampling will improve stock assessments by providing more accurate annual catch-at-age data.

SOUTHERN FLOUNDER 5.0 STOCK ASSESSMENT

This assessment uses yield-per-recruit (YPR), Spawning Potential Ratio (SPR) and catch curve analyses to estimate the impact of fishing pressure on potential yield and the spawning potential of the southern flounder stock in Louisiana waters. Estimates derived from YPR and SPR are based on information regarding the growth rate and spawning potential of the fish, and on estimates of the natural mortality rate (M) and fishing mortality rate (F) on the stock. Catch-curve analysis estimates disappearance rates (Z') from the fishery based on the relative abundance of each age class in the harvest. The results from this assessment provide a generalized approach towards estimating the impact of fishing on the spawning potential and potential yield of the fish stock. The spawning biomass of females is assumed to be the factor limiting the spawning potential of the stock; therefore, where possible, only data on female southern flounder are used. Yield-per-recruit and SPR analysis, as with many other generalized assessments, should be used only as a guide until a more comprehensive assessment can be conducted.

In developing a stock assessment, the unit stock must be defined. While a unit stock is often represented by that portion of the population which is genetically similar, for our purpose, the most applicable definition seems to be one which considers the unit stock as that portion of the population which is either dependent on Louisiana waters, or which is available to Louisiana fishermen.

5.1 Growth

Von Bertalanffy growth parameters were calculated for female southern flounder in Louisiana by using aged samples collected by Thompson (B. Thompson, Coastal Fisheries Institute, Louisiana State University, unpublished data) combined with juveniles assigned to age 0 (< 100 mm total length) by length frequency analysis from Louisiana Department of Wildlife and Fisheries (LDWF) fishery-independent trawl samples. From the combined data, a three-parameter von Bertalanffy growth equation was estimated using nonlinear approximation (SAS, 1987). The equation is as follows:

Female L₁ =
$$509(1-e^{-0.8846(1-0.0954)})$$

where, L_t= length at age t. A plot of the data and predicted growth is provided in Figure 5.1. A length-weight regression for female southern flounder was derived using fish collected in Louisiana by Thompson (unpublished data) and the LDWF fishery-independent surveys. The resulting output of the SAS regression analysis is presented in Table 5.1. The length-weight regression used is as follows:

$$\log W = 3.18369 * \log L - 5.386116$$

where, W = body weight in grams, and L = total length in millimeters. A plot of the data and predicted weight-at-length is provided in Figure 5.2.

5.2 Natural Mortality

Natural mortality is one part of total mortality (Z) and is the mortality due to all causes other than fishing. These include predation, disease, spawning stress, starvation, and old age. Typically, natural mortality is estimated as it is difficult to directly measure, especially on exploited fish stocks

where natural mortality and fishing mortality occur simultaneously. No direct measure of natural mortality for southern flounder is available; therefore, several established estimation procedures were used to derive an estimate. The procedures are presented below and are taken from Sparre and Venema (1992).

Pauly (1980) provides a method of estimating natural mortality from a set of parameters including the asymptotic length and growth rate of the fish, and the average water temperature of the environment. The growth parameters from the von Bertalanffy growth equation described in Section 5.1 and the mean annual water temperature, derived from readings from a set of four constant recorders located throughout the Barataria Bay system, were used in the calculation. The mean water temperature was 22.7°C for the period 1989 - 1992 (pers. comm., M. Kasprzak, 4/13/92). These values were incorporated into the length-based function of Pauly (1980):

$$ln(M) = -0.0152 - 0.279 * ln(L_m) + 0.6543 * ln(K) + 0.463 * ln(T).$$

where, ln(M) = natural log of natural mortality, $ln(L_{\infty})$ = natural log of the asymptotic length, ln(K) = natural log of the growth coefficient and ln(T) = natural log of the mean annual temperature in degrees Celsius.

Use of Louisiana data on growth and water temperature applied to Pauly's function results in a natural mortality estimate of M=0.68.

Alagaraja (1984) and Hoenig (1983) provide methods of estimating M based on the fish's lifespan or longevity with the assumption that M=Z. Longevity is also difficult to determine for exploited fish stocks, since the age distribution is usually truncated by fishing, but these methods are as useful as any in providing provisional estimates of natural mortality. The functions described by Alagaraja (1984) are:

$$M1\% = -\ln(0.01)/Tm$$

 $M0.1\% = -\ln(0.001)/Tm$

where, M1% and M0.1% are the natural mortality rates corresponding to 99% and 99.9% mortality, respectively, given a fish's lifespan (Tm) in years. Female southern flounder in Louisiana have been aged to 7-years-old (Thompson, personal communication). If it is assumed that 99% or 99.9% of the fish die by age 7 then corresponding natural mortality rates for M1% and M0.1% would be 0.66 and 0.99 respectively.

The function described by Hoenig(1983) is:

$$ln(Z) = 1.46 - 1.01 * ln(Tm)$$

where, when M=Z, longevity (Tm) can be defined as the maximum survival age. If we assume that the maximum age of southern flounder has been truncated due to fishing from 9 to 7 years, the resulting estimate of natural mortality, given Tm=7, would be 0.60. However, if our assumption is incorrect and the maximum age is 9 years then the estimate of natural mortality would be 0.47.

Another method of estimating M is described by Rikhter and Efanov (1976) and utilizes population age at sexual maturity. The function is:

$$M = 1.521/(Tm50\%^{0.720}) - 0.155$$

where, Tm50% is the age at which 50% of the population is mature. Age 1 is assumed to be the age at 50% maturity, based on the length at sexual maturity found by several researchers (Adkins et al. 1996), and results in an M of 1.37. However, if 50% maturity occurs at age 2 rather than age 1, the estimate of natural mortality would be 0.77.

In summary, the estimated rates of natural mortality for southern flounder in Louisiana using a variety of estimation procedures are as follow:

Pauly (1980)	0.68
Alagaraja (1984)	0.66 and 0.99
Hoenig (1983)	
 Longevity 9 years 	0.47
Longevity 7 years	0.60
Rikhter and Efanov (1976)	
1) 50% maturity age 1	1.37
2) 50% maturity age 2	0.77
2) Longevity 7 years Rikhter and Efanov (1976) 1) 50% maturity age 1	0.60

5.3 Disappearance Rates and Fishing Mortality

The disappearance rate (Z') from the fishery comprises total mortality (natural + fishing) and some unknown rate of decreasing availability of the fish to the fishery. If the unknown rate of availability is small or nonexistent, then the disappearance rate will be a reasonable estimate of total mortality. However, if a large portion of the disappearance rate is due to fish not being available to the fishery, then assuming Z'=Z will overestimate the impact of fishing.

An annual catch-at-age matrix was developed by applying a single age-length-key to the years where length frequency data for the commercial and recreational fishery was available (1994 -2001). Length frequency data were obtained from the Trip Interview Program (TIP) for the commercial fishery, and from the National Marine Fisheries Service's (NMFS) Marine Recreational Fishery Statistics Survey (MRFSS) for the recreational fishery. The data from both of the surveys did not distinguish between sexes, therefore we assumed for this assessment that all fish sampled were female (n=2,641). An age-length-key was developed from otolith aging of fish by Thompson (unpublished data) and LDWF's ongoing aging study. Twenty six hundred and forty one aged fish were used in the development of the age-length key (Table 5.2). To calculate disappearance rates, we regressed the natural log of the catch-at-age, beginning with the age at full recruitment to the fishery. This method assumes that recruitment is constant and the fishery is in equilibrium. A range of natural mortality rates were used in the assessment. After reviewing estimates of M in Section 5.2, we chose not to assume either method of estimating M was better than another, but rather to present results for the range of estimates. The range of M was from 0.47 - 1.37. We chose to use an M of 0.5 - 0.8 that encompass most of the estimates. Disappearance rates were calculated from the combined commercial and recreational catch-at-age data by year for 1994 - 2001. The calculated disappearance rates ranged from 1.27 to 1.33 (Table 5.3).

Catch-at-age from the fishery for the years 1994-2001 was used to derive age-specific selectivities to be used in yield-per-recruit analysis. The method presented in Sparre and Venema (1992) was used to develop selectivities. This method uses a linearized catch curve to determine

the selectivity of fish not yet fully recruited to the fishery. The ratio of the observed catches to the expected catches at each age is the probability of capture or selectivity of the fishery at age. Selectivities are then regressed in the equation:

$$ln(1/S_t-1) = T1 - T2 * t$$

where, S_t = the selectivity at age t, and T1 and T2 are constants corresponding to the intercept and slope of the regression. To develop theoretical or estimated selectivities at age the following equation is used:

$$S_t$$
 (estimate) = 1 / (1 + exp(T1 - T2 * t)

Selectivities for ages up to full age-at-recruitment were used to describe the relative fishing mortality to that point; for age at full recruitment and older, selectivities are assumed to be 1, or 100% selected. Selectivities are as follows:

age
$$0 = 0.0166$$

age $1 = 0.8619$
ages 2 and older = 1.

5.4 Yield per Recruit

Yield-per-recruit and SPR analysis provide basic information on fish stock dynamics by estimating the impact of mortality on yield and the spawning potential of the stock. The results can be examined as to the sensitivity of natural and fishing mortality rates on yield and spawning potential.

The growth parameters described in Section 5.1, sexual maturity described in Section 5.2 and the age-specific selectivities described in Section 5.3 were incorporated into the yield-per-recruit and spawning potential analysis. Fecundity estimates were not available, therefore; mean weight at age was used in the estimation of spawning potential. Natural mortality rates of 0.5 to 0.8 by 0.1 were used in the analysis because they are on the lower end of the range of estimates and would provide the most conservative results. These rates are also used to describe the sensitivity of M on yield and spawning potential. The results are presented in Table 5.4, which contains estimates of F_{MAX} (fishing mortality rate that produces maximum yield), $F_{0.1}$ (fishing mortality rate representing 10% of the slope at the origin of a yield-per-recruit curve), $F_{20\%SPR}$ (fishing mortality that produces 20% SPR), $F_{30\%SPR}$ (fishing mortality that produces 30% SPR), and annual estimates of F from the disappearance rates calculated in Section 5.3. Selectivities patterns of the fishery are recalculated with each additional year of data. Therefore, the results of this analysis, reflected in Table 5.4, could change each year depending on any change in selectivity patterns in the fishery.

5.5 Conservation Standards

Conservation standards are intended to protect the viability of a fish stock for future generations. These standards have historically been based on a number of biological measures of the dynamics of fish stocks, depending on the availability and adequacy of data. Conservation standards should be separated into two types: a <u>conservation threshold</u> which is entirely biologically based and, a <u>conservation target</u> which considers biological measures modified by relevant social, economic, and ecological factors. A conservation threshold is a biological baseline for the harvest

of a fish stock and should not be exceeded. It is the highest level of fishing mortality that will ensure that recruitment overfishing will not occur. Beyond the conservation threshold, a conservation target may be set, providing for other management goals in the fishery. Such goals may include maximizing yield in weight or numbers of fish, economic benefits or profit, employment, or some other measurable goal. These targets should be set at a fishing mortality rate below that of the conservation threshold in order to ensure that the biological integrity of the stock is not damaged by fishing.

The spawning potential ratio (SPR) concept described by Goodyear (1989), is a species specific value expressed as the ratio of the spawning stock biomass (or egg production) per recruit (SSB/R) in a fished condition to the SSB/R in an unfished condition. The concept is based on the premise that below some level of SPR, recruitment will be reduced. Goodyear (1989), recommends that in the absence of sufficient data to provide a value specific to the stock in question an SPR of 20% be used as a threshold. Work on North Atlantic ground fisheries also resulted in the calculation of a threshold SPR of 20% (Gabriel et al. 1984, Gabriel 1985). An SPR of 20% has been recommended for Spanish and king mackerel in the Gulf of Mexico (National Oceanic and Atmospheric Administration/National Marine Fisheries Service 1995), while an SPR of 8-13% has been demonstrated to be sufficient for gulf menhaden (Vaughan 1987). In earlier analyses of Louisiana spotted seatrout fisheries (Louisiana Department of Wildlife and Fisheries 1991), an SPR threshold of 15% was recommended based on several years of data. Mace and Sissenwine (1993) examined 90 stocks of 27 species, and reported that the average replacement SPR for all these stocks was 18.7%, while the most resilient quarter of the stocks required a maximum of only 8.6%. These authors recommended that an SPR of 30% be maintained when there is no other basis for estimating the replacement level, as this level was sufficient in maintaining recruitment for 80% of the stocks examined. However, they noted that 30% may be overly conservative for an "average" stock, and reiterated the need for stock-specific evaluations of standards to enhance both safety and benefits in the fishery.

Sufficient information is not available to directly estimate a conservation threshold for southern flounder in Louisiana. However, the conservation target of 30% SPR established by the 1995 Regular Session of the Louisiana Legislature for black drum, southern flounder, sheepshead, and striped mullet appears to be adequate to maintain the southern flounder stock and prevent recruitment overfishing.

The use of any measure of the health of a fish stock as a perfect index is arguable. It is logical to conclude that growth overfishing should occur at a much lower fishing rate than that which would threaten recruitment. However, Mace and Sissenwine (1993) provide information to suggest that some stocks may have reduced recruitment at levels of fishing that would not reduce yield-per- recruit. The preferable position for making recommendations on appropriate levels of fishing for a stock is to base those recommendations on actual measures of spawning stock size and recruitment for both the species and fishery in question. This requires a base of information resulting from monitoring of both the stock and the fishery over a variety of conditions. Without this information, conservation standards may either underestimate or overestimate the potential of a fishery. If the potential is underestimated, society loses the economic and social benefits of the harvest. If the potential is overestimated and the fishery is allowed to operate beyond sustainable levels, society loses the benefits of a sustainable fishery, and recovery will require some period of rebuilding, when effort must be reduced from the non-sustainable levels (Hilborn and Walters, 1993).

5.6 Status of the Stock

Rules for the harvest of southern flounder have changed substantially from 1995 through 1999. Commercial harvest methods were changed on August 15, 1995 when Act 1316 of the 1995 Regular Legislative Session, the Marine Resources Conservation Act of 1995, became effective. This act outlawed the use of "set" gill nets or trammel nets in saltwater areas of Louisiana, and restricted flounder harvest by the use of "strike" nets to the period between the third Monday in October and March 1 of the following year. A "Restricted Species Permit" was required in order to harvest flounder, and several criteria were established in order to qualify for that permit. After March 1, 1997, all harvest by gill or trammel nets was banned, and commercial harvesters must utilized other legal commercial gear to harvest flounder. This set of regulations had the effect of substantially reducing the harvest of flounder by this segment of the commercial fishing industry.

A second set of regulations became effective on May 1, 1996. Recreational harvesters were restricted to a creel limit of ten (10) southern flounder, with one day's limit in possession. At the same time, the use of strike nets for the harvest of southern flounder was outlawed, and other commercial harvesters were limited to a possession limit of ten (10) fish per person aboard a commercial vessel. This set of regulations reduced the ability of some recreational harvesters to retain southern flounder, and also reduced the harvest potential of the commercial fishing industry.

In 1997, regulations were changed by Acts 1163 and 1352 of the 1997 Regular Legislative Session. Recreational and commercial harvesters continued to have daily take limit of 10 fish, but were allowed that take limit for each day on the water. Additionally, commercial shrimping vessels are limited to 100 pounds of southern flounder per shrimping trip.

In 1999, regulations were changed by Acts 220 of the 1999 Regular Legislative Session. The act eliminated the 100 pound harvest limit on commercial shrimping when southern flounder are harvested as by-catch. The Act became effective in August of 1999.

Commercial landings have fluctuated over the period 1950-2001 with the highest landings in the mid-1980s and mid-1990s at 0.94 and 0.97 million pounds, respectively (Figure 5.3). Regulatory measures implemented in 1995, 1996 and 1997 had much to do with the reduction in commercial harvest from 1996 to present. Recreational landings were equal to or greater than those of the commercial fishery until 1991 when the commercial fishery began harvesting a greater percentage of the total harvest (Figure 5.4). As a result of the regulatory measures described above the recreational harvest was greater than the commercial harvest in 1996 - 2002. Fishery dependent commercial data prior to 1991 was obtained from NMFS's General Canvass Landing Program, from 1991 through 1998 it was collected by the LDWF's Monthly Dealer Reports and from 1999 to present LDWF's Commercial Reporting Requirement "Trip Tickets" program is utilized to gather this type of data.

Harvest from the recreational fishery has fluctuated for the years examined (1981-2002), and has been relatively stable since 1988. Mean catch-per-trip from the recreational fishery was calculated by selecting those trips that had southern flounder in the catch. The means with 95% confidence limits are presented in Figure 5.5. The catch-per-effort (CPUE) indices seem to cycle over the years examined, with 2001 having the lowest mean CPUE. From a high in 1990 through 2002 CPUE has shown a declining trend. Fisheries dependent recreational landings data is collected through the NMFS's MRFSS survey and currently collected by LDWF Biologists.

Catch-per-effort data from the Department's, fishery-independent trammel net (750' x 6' - 1 5/8" inner, 6" outer wall) and 16-foot flat otter trawl samples were calculated as follows:

Mean CPUE =
$$(\exp(\sum \ln(\coth + I)/N))$$
-l

where, catch is the total number caught in each set and, N is the number of samples taken annually. Trammel net data were used for the period 1986-2003, and 16-foot trawl data were used for the period 1967-2003. Trammel net samples are collected from October through March. In order to use the most recent data available to us in this report, trammel net CPUE was estimated for two periods (January-March and October-December). This allowed the use of 2003 data through December. CPUE estimates from trammel nets fluctuated throughout the period examined with 2003's January-March and October-December estimate being relatively stable over the past eight years (Figure 5.6A-B). The large amount of variation in January - March samples for 1987 is due to small sample size (Figure 5.6A). Standardized CPUE estimates presented in Figure 5.6C indicate better than average catches in the latter half of the years examined; however, over the past four years CPUE has been below average. Trawl data were used to provide an index of young-of-the-year recruitment. The long-term database provide by 16-foot trawl data shows how CPUE cycles over time and represents natural fluctuations in recruitment. Whatever the cause of the cyclic nature of the indices, no evidence from the 16-foot trawl data indicates a long-term downward trend in CPUE for southern flounder (Figure 5.7).

It should be noted that the following results of YPR and SPR analysis do not reflect the impact of current regulations described above. With this type of general assessment, it will take several years before the impact of regulations will be observed in the disappearance rates from the fishery.

The results of YPR analysis indicate that if M=0.5 (the most conservative value within the range of estimates), the fishery in the years assessed (1997 - 2002) was operating between $F_{0.1}$ and F_{MAX} , with yields of 93% to 95% of maximum and SPR at 27% to 29%. An M of 0.8 (the highest value within the range examined) would produce yields of 57% to 60% of maximum with SPR at 50% to 54% (Table 5.4).

5.7 Research and Data Needs

Estimates of natural mortality used in the present assessment show wide variation. This variation reduces the reliability of the present assessment in providing an accurate prediction of the potential yield of the stock, and also reduces the confidence level of the present estimate of SPR. A more precise estimate of natural mortality would assist in both of these problems.

Annual sex specific age-length keys should continue to be developed to provide catch-at-age data necessary to conduct age-based population assessments. The department is in the process of collecting otoliths for development of annual age-length keys.

Sex specific fishery dependent length frequency data is essential in adequately partitioning catch from the fishery. In the case of flounder, males grow slower and do not get as large as females. There can be significant improvement in the accuracy of this assessment if sex is collected.

The relationship between wetlands losses or modifications and the continuation of fishery production within the state has been discussed by many authors. However, this relationship is likely to be different for the various fishery species. Understanding of this relationship for southern flounder should be an ongoing priority.

In the presence of changing regulations, fishery-dependent information is not a reliable source of data necessary to assess the status of a fish stock. However, such data is necessary to measure the effects of fishing on that stock. Consistent fishery-dependent and fishery-independent data sources, in a comprehensive monitoring plan, are essential to understanding the status of fishery stocks, and to identifying causes of changes in stock abundances. Present programs should be assessed for adequacy with respect to their ability to evaluate stock status, and modified or enhanced to optimize their capabilities.

BIBLIOGRAPHY

- Adkins, G., S. Hein, P. Meier 1996. A biological and fisheries profile for southern flounder (Paralichthys lethostigma) in Louisiana. La. Dept. of Wildlife and Fisheries, Office of Fisheries. Fisheries Management Plan Series No. 6, Pt. 1.
- Alagaraja, D., 1984. Simple methods for estimation of parameters for assessing exploited fish stocks. Indian J.fish., 31:177-208
- Gabriel, W.L. 1985. Spawning stock biomass per recruit analysis for seven Northwest Atlantic demersal finfish species. NMFS-NEFC. Woods Hole Lab. Ref. Doc. 85-04.
- Gabriel, W.L., W.J. Overholtz, S.A. Murawski and R.K. Mayo. 1984. Spawning stock biomass per recruit analysis for seven Northwest Atlantic demersal finfish species, Spring, 1984. NMFS-NEFC Woods Hole Lab. Ref. Doc. 84-23.
- Goodyear, C. P. 1989. Spawning stock biomass per recruit: the biological basis for a fisheries management tool. ICCAT Working Document SCRS/89/82. 10p.
- Hilborn, R. and C. J. Walters. 1992. Quantitative Fisheries Stock Assessment: Choice, Dynamics and Uncertainty. Chapman and Hall, New York. 570 pp.
- Hoenig, J.M. 1983. Empirical use of longevity data to estimate mortality rates. Fish.Bull.NOAA/NMFS, 81(4):898-903
- Louisiana Department of Wildlife and Fisheries. 1991. A stock assessment for Louisiana spotted seatrout, (Cynoscion nebulosus). LDWF Fishery Management Plan Series, Number 3 (Draft).
- Mace, P.M. and M.P. Sissenwine. 1993. How much spawning per recruit is enough? pp. 101-118 <u>in S.J.Smith, J.J. Hunt and D. Rivard (eds.) Risk Evaluation and Biological Reference Points</u> for Fisheries Management. Can. Spec. Publ. Fish. Aq. Sci. 120. 442pp.
- National Oceanic and Atmospheric Administration/National Marine Fisheries Service 1995. 1995 Report of the mackerel stock assessment panel. Miami Lab.Con. MIA- 94/95-30 March 1995
- Pauly, D. 1980. On the interrelationships between natural mortality, growth parameters, and mean environmental temperature in 175 fish stocks. J. Cons. int. Explor. Mer 39(2)175-192.
- Rikhter, V.A. and V.N. Efanov, 1976. On one of the approaches to estimation of natural mortality of fish populations. ICNAF Res.Doc., 76/VI/8:12 p.
- SAS, 1987. SAS/STAT guide for personal computers, Version 6 edition. SAS Inst., Cary, N.C. 1028 pp.
- Sparre, P. and S.C. Venema 1992. Introduction to tropical fish stock assessment, Part 1-Manual. FAO Fish.Tech.Pap., (306) Rev.1:376 p.

Vaughan, D.S. 1987. A stock assessment of the gulf menhaden, (Brevoortia patronus), fishery. NOAA NMFS Tech. Rep. 58, 18 pp.

Table 5.1 - SAS output from length-weight regression analysis

The SAS System

Model: MODEL1

Dependent Variable: LOG_W

Analysis of Variance

Source	DF	Sum o Square		F Value	Prob>F
Model Error C Total	1 966 967	54.6204 3.5829 58.2033	0.0037		0.0001
Root Ma Dep Me C.V.		0.06090 2.90704 2.09497	R-square Adj R-sq	0.9384 0.9384	

Parameter Estimates

Variable	DF	Parameter Estimate		T for H0: Parameter=0	Prob > T
INTERCEP			0.06836746		0.0001
LOG_L	1	3.183690	0.02623508	121.352	0.0001

Table 5.2 - Age-at-length distribution of fish used in age-length key development.

Length (inches)					AGE	,			
	0	1	2	3	4	5	. 6	7	Total
6	1	3							4
7	16	9	1						26
8	64	20	2						86
9	93	85	5						183
10	52	99	7	1					159
11	38	174	27	3			1		243
12	15	198	35	5					253
13	12	163	39	5					219
14	8	280	103	17			1		409
15	2	180	79	13	1				275
16		173	107	22	3				305
17	1	82	61	22	3				169
18	1	69	54	21	4	5		1	155
19	1	20	22	2	5	. 1			51
20		12	22	11	5	<u> </u>			50
21	1	4	9	5	4				23
22		1	8	3	1		1		14
23			2	3	2	1	1		9
24				2	2	2			6
25				1					1
26				1					1
Total	305	1572	583	137	30	9	4	1	2641

Table 5.3 Regression Output from the Estimation of Disappearance Rates

1994				1995	·		
Regression	Output:				Regression	Output:	
Constant	•	14.915731	•	Constant	•	,	14.441602
Std Err of Y Est		0.2266308		Std Err of Y	' Est		0.2408644
R Squared		0.9943758		R Squared			0.9937897
No. of Observations		7		No. of Obse	ervations		7
Degrees of Freedom		5		Degrees of	Freedom		5
				_			
X Coefficient(s)	-1.273414			X Coefficien		-1.287563	
Std Err of Coef.	0.0428292			Std Err of C	oef.	0.0455191	
1996				1997			
Regression	Output:		•		Regression	Output:	
Constant	•	13.727194		Constant			13.807823
Std Err of Y Est		0.3056498		Std Err of Y	Est		0.3382599
R Squared		0.9906913		R Squared			0.9879663
No. of Observations		7		No. of Obse			7
Degrees of Freedom	•	5		Degrees of	Freedom		5
X Coefficient(s)	-1.332462			V.Cooffician	4/=)	1 205475	
Std Err of Coef.	0.0577624			X Coefficien Std Err of C	` '	-1.295175 0.0639251	
Old Ell of Obel.	0.0077024			Old Ell of C	oer.	0.0039231	
1998				1999	•		
Regression	Output			,555	Regression	Output:	
Constant	Output.	13.657311		Constant	regression	Output.	14.119579
Std Err of Y Est		0.2943606		Std Err of Y	Fet		0.2702238
R Squared	•	0.9907404		R Squared	LSt		0.9927632
No. of Observations		7		No. of Obse	nations	•	0.8821032
Degrees of Freedom		5		Degrees of I			5
bog.cob or roodom		Ū		Dog.coo o			J
X Coefficient(s)	-1.286675			X Coefficien	t(s)	-1.337456	
Std Err of Coef.	0.0556289			Std Err of C	oef.	0.0510675	
2000				2001			
Regression	Output:				Regression	Output:	
Constant		14.143179		Constant		•	13.748498
Std Err of Y Est		0.2304911		Std Err of Y	Est		0.33312
R Squared		0.9942008		R Squared		•	0.9884234
No. of Observations		?		No. of Obse	rvations		7
Degrees of Freedom	•	5		Degrees of I	Freedom		5
V // - #= #= !== #/= \	4 075000			V C - #-:	V- X		
X Coefficient(s) Std Err of Coef.	-1.275302 0.0435587			X Coefficient Std Err of Co		-1.300732	
Sta Eli di Coel.	0.0433367	-		Stu Eli Ol Ci	Jei.	0.0629538	
2002				•			
Regression	Output:						
Constant	output,	13.675275					
Std Err of Y Est		0.3289649					
R Squared		0.9893629	•	•			
No. of Observations		7					
Degrees of Freedom	•	5					
Degrees or recom		3					
X Coefficient(s)	-1.340666				•		
Std Err of Coef.	0.0621685						

Table 5.4 Results of Yield per Recruit and SPR Analysis for Southern Flounder M=0.5

	F Ratio	YPR	SPR	%SPR	%YPR	
F-max =	4.1654	0.6382	0.1708	6.21%	100.00%	
F0.1 =	0.5642	0.5586	1.0405	37.81%	87.52%	Benchmarks
F30% =	0.7675	0.5978	0.8256	30.00%	93.68%	
F20% =	1.2325	0.6298	0.5504	20.00%	98.69%	
1997 =	0.7952	0.6014	0.8024	29.16%	93.91%	
1998 =	0.7867	0.6003	0.8094	29.41%	94.20%	
1999 =	0.8375	0.6062	0.7693	27.96%	95.03%	Estimates
2000 =	0.7753	0.5989	0.8189	29.76%	94.89%	
2001 =	0.8007	0.6021	0.7979	29.00%	93.95%	-
2002 =	0.8407	0.6066	0.7669	27.87%	94.46%	

M=0.6

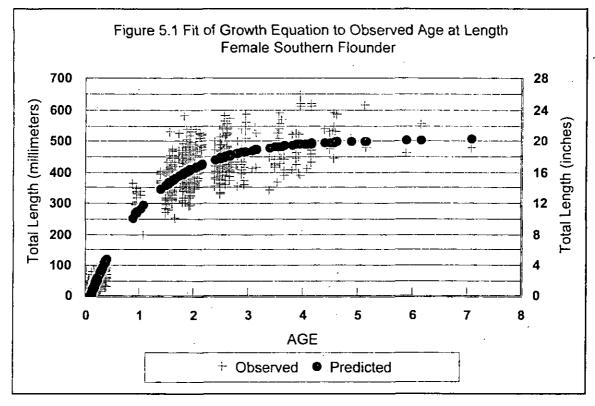
	F Ratio	YPR	SPR	%SPR	%YPR	
F-max =	7.4551	0.5865	0.0844	4.27%	100.00%	
F0.1 =	0.6831	0.4730	0.7310	36.98%	80.65%	Benchmarks
F30% =	0.9064	0.5057	0.5931	30.00%	86.22%	
F20% =	1.4754	0.5415	0.3954	20.00%	92.33%	
1997 =	0.6952	0.4753	0.7221	36.52%	81.04%	
1998 =	0.6867	0.4737	0.7283	36.84%	80.77%	
1999 =	0.7375	0.4828	0.6923	35.02%	82.32%	Estimates
2000 =	0.6753	0.4715	0.7369	37.27%	80.40%	
2001 =	0.7007	0.4764	0.7180	36.32%	81.22%	
2002 =	0.7407	0.4833	0.6901	34.91%	82.41%	

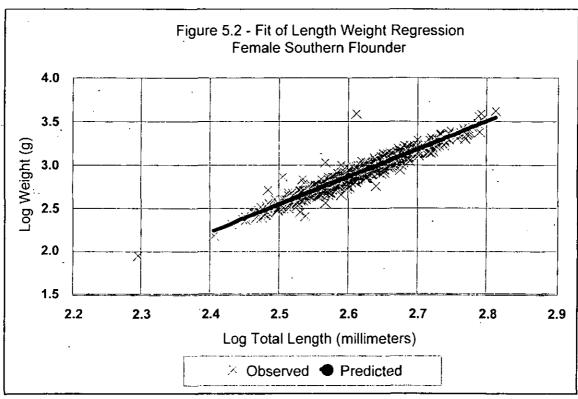
M=0.7

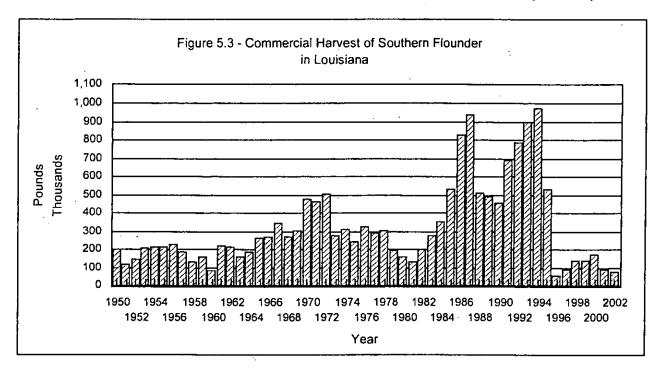
			•			
_	F Ratio	YPR	SPR	%SPR	%YPR	
F-max =	8.2995	0.5254	0.0674	4.62%	100.00%	
F0.1 =	0.8151	0.4064	0.5300	36.32%	77.34%	Benchmarks
F30% ≒	1.0602	0.4338	0.4377	30.00%	82.55%	
F20% =	1.7464	0.4708	0.2918	20.00%	89.60%	
1997 =	0.5952	0.3641	0.6579	45.09%	69.79%	
1998 =	0.5867	0.3642	0.6554	44.91%	69.32%	
1999 =	0.6375	0.3756	0.6230	42.70%	71.49%	Estimates
2000 =	0.5753	0.3615	0.6630	45.44%	68.80%	
2001 =	0.6007	. 0.3675	0.6461	44.28%	69.95%	
2002 =	0.6407	0.3763	0.6211	42.57%	71.62%	

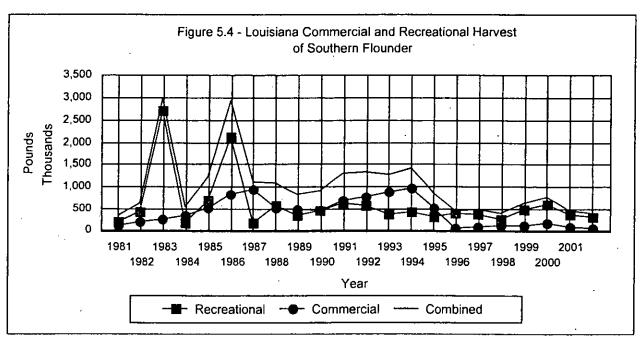
M=0.8

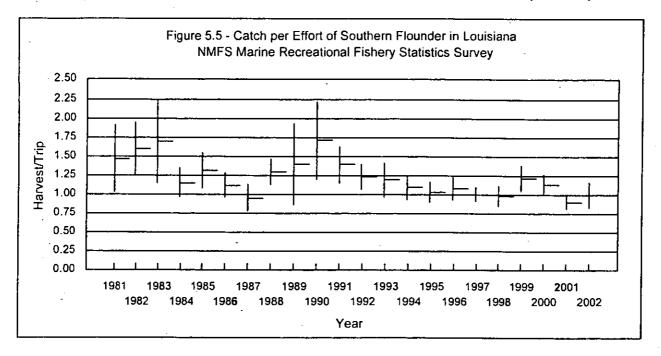
	F Ratio	YPR	SPR	%SPR	%YPR	
F-max ≃	9.0843	0.4715	0.0548	4.97%	100.00%	
F0.1 ≓	0.9650	0.3545	0.3930	35.66%	75.19%	Benchmarks
F30% =	1.2277	0.3774	0.3306	30.00%	80.04%	•
F20% =	2.0439	0.4149	0.2204	20.00%	88.00%	
1997 =	0.4952	0.2742	0.5847	53.06%	58.16%	
1998 =	0.4867	0.2719	0.5897	53.51%	57.67%	
1999 =	0.5375	0.2851	0.5607	50.88%	60.45%	Estimates
2000 =	0.4753	0.2688	0.5966	54.14%	57.00%	
2001 =	0.5007	0.2757	0.5814	52.76%	58.47%	
2002 =	0.5407	0.2858	0.5590	50.72%	60.62%	

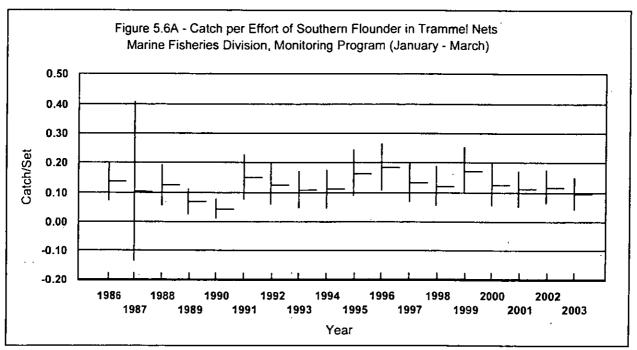


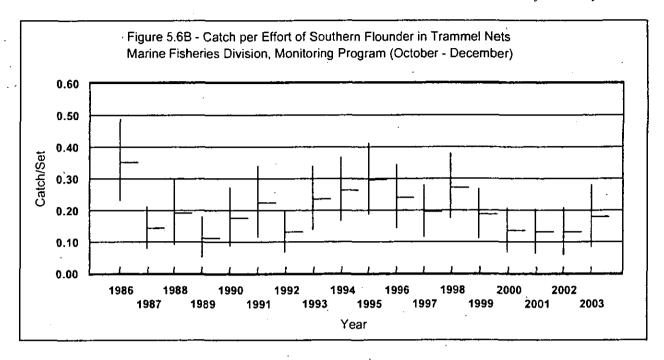


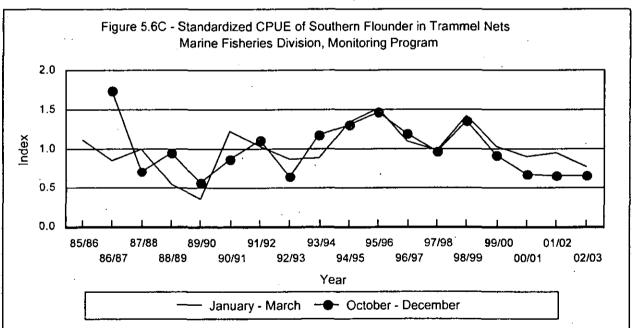


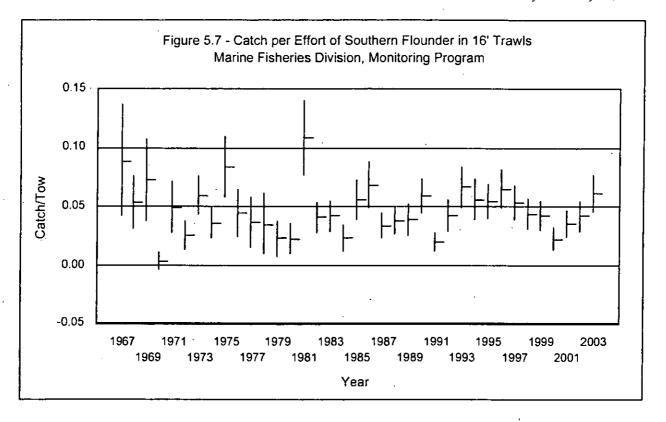












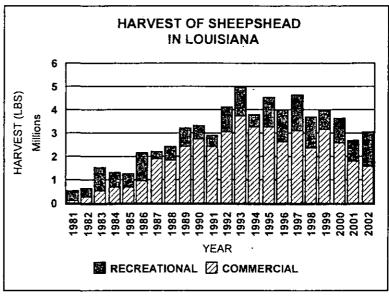
SHEEPSHEAD SUMMARY OF CHANGES FROM 2003 ASSESSMENT

This summary is intended to provide a quick reference of substantive changes in methods or corrections in this year's assessment from the 2003 assessment conducted for Sheepshead.

• There is no substantive change in methods from the 2003 assessment.

2004 DOCUMENT HIGHLIGHTS

- 2002 combined commercial and recreational harvest of 3,061,183 pounds is 330,324 pounds higher than 2001 and the second lowest year since 1992.
- The results of YPR analysis indicate that if M=0.2 (the most conservative value within the range of estimates), the fishery in the years assessed (1997 2002) was operating at or below F_{0.1} and well below F_{MAX}, with yield of 34% to 74% of maximum, and SPR at 53%



to 81%. An M of 0.3 (the highest value examined) would indicate a more lightly fished stock with yield being 0% to 40% of maximum and with SPR being 71% to 100%.

- It should be noted that the method used in this assessment to determine the status of the stock, reflected in the estimates of disappearance, is not immediately sensitive to changes in regulations. Sheepshead enter the fishery at age 2 and are fully recruited by age 6 or 7. It takes several years of consistent regulations after regulations are imposed before the impact of those regulations can be measured. In the case of sheepshead it would take 5 to 6 years of consistent regulations assuming selectivities of age 7 and older is 100%.
- As a result of having several years of commercial trip ticket data, and collecting recreational fishery statistics data, the department was able to begin a program to representatively sample fishery dependent otoliths in 2002. The program uses trip ticket data and recreational survey data to weight sampling sites for the collection of otoliths for the species of interest. It is expected that this method of otolith sampling will improve stock assessments by providing more accurate annual catch-at-age data.

SHEEPSHEAD 5.0 STOCK ASSESSMENT

This assessment uses yield-per-recruit (YPR), Spawning Potential Ratio (SPR) and catch curve analyses to estimate the impact of fishing pressure on potential yield and the spawning potential of the sheepshead stock in Louisiana waters. Estimates derived from YPR and SPR are based on information regarding the growth rate and spawning potential of the fish, and on estimates of the natural mortality rate (M) and fishing mortality rate (F) on the stock. Catch-curve analysis estimates disappearance rates (Z¹) from the fishery based on the relative abundance of each age class in the harvest. The results from this assessment provide a generalized approach towards estimating the impact of fishing on the spawning potential and potential yield of the fish stock. The spawning biomass of females is assumed to be the factor limiting the spawning potential of the stock; therefore, where possible, only data on female sheepshead are used. Yield-per-recruit and SPR analysis, as with many other generalized assessments, should be used only as a guide until a more comprehensive assessment can be conducted.

In developing a stock assessment, the unit stock must be defined. While a unit stock is often represented by that portion of the population which is genetically similar, for our purpose, the most applicable definition seems to be one which considers the unit stock as that portion of the population which is either dependent on Louisiana waters, or which is available to Louisiana fishermen.

5.1 Growth

Von Bertalanffy growth parameters developed by Beckman et al. (1991) from fish harvested in Louisiana were used to calculate length and weight at age for female sheepshead. The equations are as follows:

Female L₁ =
$$447(1-e^{-0.367(t+1.025)})$$

Female W, =
$$2557(1-e^{-0.219(t+3.061)})^{2.85}$$

where, L_t = length at age t, W_t = weight at age t and t = age in years. Age at length is calculated as:

$$t = 1.025 + \ln(1-L_t/446)/-0.367$$

5.2 Natural Mortality

Natural mortality is one part of total mortality (Z) and is the mortality due to all causes other than fishing. These include predation, disease, spawning stress, starvation, and old age. Typically, natural mortality is estimated, as it is difficult to directly measure, especially on exploited fish stocks where natural mortality and fishing mortality occur simultaneously. No direct measure of natural mortality for sheepshead is available; therefore, several established estimation procedures were used to derive an estimate. The procedures are presented below and are taken from Sparre and Venema (1992).

Pauly (1980) provides a method of estimating natural mortality from a set of parameters including the asymptotic length and growth rate of the fish, and the average water temperature of

the environment. The growth parameters from the von Bertalanffy growth equation described in Section 5.1 and the mean annual water temperature, derived from readings from a set of four constant recorders located throughout the Barataria Bay system, were used in the calculation. The mean water temperature was 22.7°C for the period 1989 - 1992 (pers. comm., M. Kasprzak, 4/13/92). These values were incorporated into the length-based function of Pauly (1980):

$$ln(M) = -0.0152 - 0.279 * ln(L_{\bullet}) + 0.6543 * ln(K) + 0.463 * ln(T)$$

where, ln(M) = natural log of natural mortality, $ln(L_{\circ})$ = natural log of the asymptotic length, ln(K) = natural log of the growth coefficient and ln(T) = natural log of the mean annual temperature in degrees Celsius.

Use of Louisiana data on growth and water temperature applied to Pauly's function results in a natural mortality estimate of M=0.4.

Alagaraja (1984) and Hoenig (1983) provide methods of estimating M based on the fishes lifespan or longevity, and with the assumption that M=Z. Longevity is also difficult to determine for exploited fish stocks, since the age distribution is usually truncated by fishing, but these methods are as useful as any in providing provisional estimates of natural mortality. The functions described by Alagaraja (1984) are:

$$M1\% = -\ln(0.01)/Tm$$

 $M0.1\% = -\ln(0.001)/Tm$

where, M1% and M0.1% are the natural mortality rates corresponding to 99% and 99.9% mortality, respectively, given a fishes lifespan (Tm) in years. Sheepshead in Louisiana have been aged to 20-years-old (Beckman et al. 1991). If it is assumed that 99% or 99.9% of the fish die by age 20 then the corresponding natural mortality rates for M1% and M0.1% would be 0.2 and 0.35 respectively.

The function described by Hoenig(1983) is:

$$ln(Z) = 1.46 - 1.01 * ln(Tm)$$

where, when M=Z, longevity (Tm) can be defined as the maximum survival age. If we assume that the maximum age of sheepshead has been truncated due to fishing from 25 to 20 years, the resulting estimate of natural mortality, given Tm=25, would be 0.2.

Another method of estimating M is described by Rikhter and Efanov (1976) and utilizes population age at sexual maturity. The function is:

$$M = 1.521/(Tm50\%^{0.720}) - 0.155$$

where, Tm50% is the age at which 50% of the population is mature. Age 2 is assumed the age at 50% maturity for the sheepshead population (Render and Wilson 1992) resulting in an M of 0.77.

In summary, the estimated rates of natural mortality for sheepshead in Louisiana using a variety of estimation procedures are as follow:

Pauly (1980) 0.40

Alagaraja (1984) 0.20 and 0.35

Hoenig (1983) 0.20 Rikhter and Efanov (1976) 0.77

5.3 Disappearance Rates and Fishing Mortality

The disappearance rate (Z') from the fishery comprises the total mortality (natural + fishing) and some unknown rate of decreasing availability of the fish to the fishery. If the unknown rate of availability is small or nonexistent, then the disappearance rate will be a reasonable estimate of total mortality. However, if a large portion of the disappearance rate is due to fish not being available to the fishery, then assuming Z'=Z will overestimate the impact of fishing.

An annual catch-at-age matrix was developed by applying the growth equation presented in Section 5.1 to the years where length frequency data for the commercial and recreational fishery was available (1994 - 2002). Length frequency data were obtained from the Trip Interview Program (TIP) for the commercial fishery, and from the National Marine Fisheries Services' (NMFS) Marine Recreational Fishery Statistics Survey (MRFSS) for the recreational fishery. Fish with lengths greater than the asymptotic length were not used in developing catch-at-age and therefore not used in estimating disappearance rates. The elimination of these fish reduces the number of large fish that are typically older fish used in estimating disappearance and produces a more conservative estimate. The data from both of the surveys did not distinguish between sexes. Therefore, we assumed for this assessment that all fish sampled were female. To calculate disappearance rates, we regressed the natural log of the catch-at-age, beginning with the age at full recruitment to the fishery. This method assumes that recruitment is constant and the fishery is in equilibrium. A range of natural mortality rates were used in the assessment. After reviewing estimates of M in Section 5.2, we chose not to assume either method of estimating M was better than another, but rather to present results for the range of estimates. The range of M was from 0.20 - 0.77. We chose to use an M of 0.2 as the lowest estimate of M since it was the lowest estimate derived from the methods examined. Resulting disappearance rates using an M of 0.2 indicated a SPR values well above 30%; therefore, assessing the impact of an upper range of M was of little value in evaluating the status of the stock. However, we did use an upper range of 0.3 to evaluate how a change in M impacted resulting yield and SPR. Disappearance rates were calculated from the combined commercial and recreational catch-at-age data by year for 1994 - 2002. The calculated disappearance rates ranged from 0.27 to 0.57 (Table 5.1). The disappearance rate in 2001 (0.27) is below an M of 0.3, therefore; table 5.1 indicates 100% SPR and 0% yield. It is unknown if, an M of 0.3 is a realistic estimate of natural mortality, the stock is so lightly fished to provide those results or disappearance rates or the method used to calculate them are inaccurate.

Catch-at-age from the fishery for the years 1994-2002 was used to derive age-specific selectivities to be used in yield-per-recruit analysis. The method presented in Sparre and Venema (1992) was used to develop selectivities. This method uses a linearized catch curve to determine the selectivity of fish not yet fully recruited to the fishery. The ratio of the observed catches to the expected catches at each age is the probability of capture or selectivity of the fishery at age. This selection is then regressed in the equation:

where, S_t = the selectivity at age t, and T1 and T2 are constants corresponding to the intercept and slope of the regression. To develop theoretical or estimated selectivities at age the following equation is used.

$$S_1$$
 (estimate) = 1 / (1 + exp(T1 - T2 * t)

Selectivities for ages up to full age-at-recruitment were used to describe the relative fishing mortality to that point; for age at full recruitment and older, selectivities are assumed to be 1, or 100% selected. Regulatory changes in the commercial fishery in 1995 and 1997 were evident in the selectivity patterns observed. Therefore, selectivities were grouped into 3 time periods to reflect those changes in the fishery. Prior to 1995, gillnets and trammel nets were fished in inshore waters of the state on primarily younger fish and were a significant contribution to the commercial landings of sheepshead. Currently, the fishery is primarily an otter trawl fishery on older fish in offshore waters and large bays and sounds. It is evident that the selectivity pattern in the most recent years are on older fish (Figure 5.1).

Selectivities are as follows:

Age	1994-1995	1996	1997-2002
0	0.00	0.00	.0.00
1	0.00	0.00	0.00
· 2	0.03	0.03	0.01
3	0.34	0.13	0.09
4	1.00	0.68	0.26
5	1.00	1.00	0.57
6	1.00	1.00	0.96
7+	1.00	1.00	1.00

5.4 Yield-per-Recruit

Yield-per-recruit and SPR analysis provide basic information on fish stock dynamics by estimating the impact of mortality on yield and the spawning potential of the stock. The results can be examined as to the sensitivity of natural and fishing mortality rates on yield and spawning potential.

The growth parameters described in Section 5.1, sexual maturity described in Section 5.2 and the age-specific selectivities described in Section 5.3 were incorporated into the yield-per-recruit and spawning potential analysis. Mean weight at age was used in the estimation of spawning potential. Natural mortality rates of 0.2 and 0.3 were used in the analysis because they are on the lower end of the range of estimates and would provide the most conservative results. These rates are also used to describe the sensitivity of M on yield and spawning potential. The results are presented in Table 5.2, which contains estimates of F_{MAX} (fishing mortality rate that produces maximum yield), $F_{0.1}$ (fishing mortality rate representing 10% of the slope at the origin of a yield-per-recruit curve), $F_{20\%SPR}$ (fishing mortality that produces 20% SPR), $F_{30\%SPR}$ (fishing

mortality that produces 30% SPR), and annual estimates of F from the disappearance rates calculated in Section 5.3. Selectivities patterns of the fishery are recalculated with each additional year of data. Therefore, the results of this analysis, reflected in Table 5.2, could change each year depending on any change in selectivity patterns in the fishery.

5.5 Conservation Standards

Conservation standards are intended to protect the viability of a fish stock for future generations. These standards have historically been based on a number of biological measures of the dynamics of fish stocks, depending on the availability and adequacy of data. Conservation standards should be separated into two types: a conservation threshold which is entirely biologically based and, a conservation target which considers biological measures modified by relevant social, economic, and ecological factors. A conservation threshold is a biological baseline for the harvest of a fish stock and should not be exceeded. It is the highest level of fishing mortality that will ensure that recruitment overfishing will not occur. Beyond the conservation threshold, a conservation target may be set, providing for other management goals in the fishery. Such goals may include maximizing yield in weight or numbers of fish, economic benefits or profit, employment, or some other measurable goal. These targets should be set at a fishing mortality rate below that of the conservation threshold in order to ensure that the biological integrity of the stock is not damaged by fishing.

The spawning potential ratio (SPR) concept described by Goodyear (1989), is a species specific value expressed as the ratio of the spawning stock biomass (or egg production) per recruit (SSB/R) in a fished condition to the SSB/R in an unfished condition. The concept is based on the premise that below some level of SPR, recruitment would be expected to be reduced. Goodyear (1989), recommends that in the absence of sufficient data to provide a value specific to the stock in question an SPR of 20% be used as a threshold. Work on North Atlantic ground fisheries also resulted in the calculation of a threshold SPR of 20% (Gabriel et al. 1984, Gabriel 1985). An SPR of 20% has been recommended for Spanish and king mackerel in the Gulf of Mexico (National Oceanic and Atmospheric Administration/National Marine Fisheries Service 1995), while an SPR of 8-13% has been demonstrated to be sufficient for gulf menhaden (Vaughan 1987). In earlier analyses of Louisiana spotted seatrout fisheries (Louisiana Department of Wildlife and Fisheries 1991), an SPR threshold of 15% was recommended, based on several years of data. A more recent reassessment of threshold SPR for spotted seatrout by the department resulted in a median SPR of 18%. The change from 15% to 18% was due to changes in the methodology of the assessment, specifically the use of an improved maturity schedule with additional data from Louisiana specimens and the incorporation of the method used by Gabriel (Gabriel et al. 1984, Gabriel, 1985) to estimate median SPR. Mace and Sissenwine (1993) examined 90 stocks of 27 species, and reported that the average replacement SPR for all these stocks was 18.7%, while the most resilient quarter of the stocks required a maximum of only 8.6% SPR. These authors recommended an SPR of 30% be maintained when there is no other basis for estimating the replacement level, as this level was sufficient in maintaining recruitment for 80% of the stocks they examined. However, they noted that 30% may be overly conservative for an "average" stock, and reiterated the need for stock-specific evaluations of standards to enhance both safety and benefits in the fishery.

Sufficient information is not available to directly estimate a conservation threshold for sheepshead in Louisiana. However, the conservation target of 30% SPR established by the 1995

Regular Session of the Louisiana Legislature for black drum, sheepshead, southern flounder, and striped mullet appears to be adequate to maintain the sheepshead stock and prevent recruitment overfishing.

The use of any measure of the health of a fish stock as a perfect index is arguable. It is logical to conclude that growth overfishing should occur at a much lower fishing rate than that which would threaten recruitment. However, Mace and Sissenwine (1993) provide information to suggest that some stocks may have reduced recruitment at levels of fishing that would not reduce yield-per- recruit. The preferable position for making recommendations on appropriate levels of fishing for a stock is to base those recommendations on actual measures of spawning stock size and recruitment for both the species and fishery in question. This requires a base of information resulting from monitoring of both the stock and the fishery over a variety of conditions. Without this information, conservation standards may either underestimate or overestimate the potential of a fishery. If the potential is underestimated, society loses the economic and social benefits of the harvest. If the potential is overestimated and the fishery is allowed to operate beyond sustainable levels, society loses the benefits of a sustainable fishery, and recovery will require some period of rebuilding, when effort must be reduced from the non-sustainable levels (Hilborn and Walters, 1993).

5.6 Status of the Stock

Sheepshead were lightly exploited until the early to mid-1980s when commercial harvest began to increase (Figure 5.2). Commercial landings have gone from 0.2 million pounds in the early1980s to 2.4 - 3.7 million pounds in the 1990s. Landings have declined in the last eight years from a high of 3.7 million pounds in 1993 to 1.7 million pounds in 2001. Fishery dependent commercial data prior to 1991 was obtained from NMFS's General Canvass Landing Program, from 1991 through 1998 it was collected by the Louisiana Department of Wildlife and Fisheries' (LDWF) Monthly Dealer Reports and from 1999 to present LDWF's Commercial Reporting Requirement "Trip Tickets" program is utilized to gather this type of data.

Harvest from the recreational fishery obtained through the NMFS'S MRFSS fluctuated from a low of 0.4 million pounds in 1981 to a high of 1.5 million pounds in 1997. Recreational harvest for the years examined (1981-2001), were equal to those of the commercial fishery until 1987 when the commercial fishery began to expand (Figure 5.3). Mean catch-per-trip from the recreational fishery was calculated by selecting those trips that had sheepshead in their catch. The results are presented in Figure 5.4 along with 95% confidence limits around the mean. The catch-per-unit-effort (CPUE) indices fluctuated with no indication of a long-term downward trend. CPUE for 2002 was not statistically lower than the other years analyzed. Fisheries dependent recreational landings data is collected through the NMFS's MRFSS and currently collected by LDWF Biologists.

Catch-per-effort data from the Department's, fishery-independent trammel net (750' x 6' - 15/8" inner, 6" outer wall) and small mesh bag seine (50' -1/4" delta mesh) samples were calculated as follows:

Mean CPUE =
$$(exp(\sum ln(catch +1)/N)) -1$$

where, catch is the total number caught in each set and, N is the number of samples taken annually. Trammel net and seine data were used for the period 1986-2002. Trammel net samples are collected from October through March. In order to use the most recent data available to us in this report, trammel net CPUE was estimated for October-December only. This allowed the use of 2003 data through December. Seine and trammel net CPUE fluctuated throughout the time period with no indication of a long-term downward trend; however, mean CPUE in seines for 2003 ranks among the lowest observed (Figure 5.5). Mean CPUE in trammel nets for 2003 fell below the high years of 2000 and 2001, but was not significantly lower than any of the years examined (Figure 5.6).

Rules for the commercial harvest of sheepshead changed on August 15, 1995 when Act 1316 of the 1995 Regular Legislative Session, the Marine Resources Conservation Act of 1995, became effective. This act outlawed the use of "set" gill nets or trammel nets in saltwater areas of Louisiana, and restricted sheepshead harvest by the use of "strike" nets to the period between the third Monday in October and March 1 of the following year. A "Restricted Species Permit" was required in order to harvest sheepshead, and several criteria were established in order to qualify for that permit. After March 1, 1997, all harvest by gill or trammel nets was banned, and legal commercial gear to harvest sheepshead is limited to trawls, set lines and hook and line. This set of regulations had the effect of reducing the harvest of sheepshead by this segment of the commercial fishing industry.

It should be noted that the following results of YPR and SPR analysis do not reflect the impact of current regulations described above. With this type of general assessment, it will take several years before the impact of regulations will be observed in the disappearance rates from the fishery.

The results of YPR analysis indicate that if M=0.2 (the most conservative value within the range of estimates), the fishery in the years assessed (1997 - 2002) was operating at or below $F_{0.1}$ and well below F_{MAX} , with yield of 34% to 74% of maximum, and SPR at 53% to 81%. An M of 0.3 (the highest value examined) would indicate a more lightly fished stock with yield being 0% to 40% of maximum and with SPR being 71% to 100% (Table 5.2).

5.7 Research and Data Needs

Estimates of natural mortality used in the present assessment show wide variation. This variation reduces the reliability of the present assessment in providing an accurate prediction of the potential yield of the stock, and also reduces the confidence level of the present estimate of SPR. A more precise estimate of natural mortality would assist in both of these problems.

Annual sex specific age-length keys should continue to be developed to provide catch-at-age data necessary to conduct age-based population assessments. The department is in the process of collecting otoliths for development of annual age-length keys.

Sex specific fishery dependent length frequency data is essential in adequately partitioning catch from the fishery. There can be significant improvement in the accuracy of this assessment if sex is collected.

The relationship between wetlands losses or modifications and the continuation of fishery production within the state has been discussed by many authors. However, this relationship is likely

to be different for the various fishery species. Understanding of this relationship for sheepshead should be an ongoing priority.

In the presence of changing regulations, fishery-dependent information is not a reliable source of data necessary to assess the status of a fish stock. However, such data are necessary to measure the effects of fishing on that stock. Consistent fishery-dependent and fishery-independent data sources, in a comprehensive monitoring plan, are essential to understanding the status of fishery stocks, and to identifying causes of changes in stock abundance. Present programs should be assessed for adequacy with respect to their ability to evaluate stock status, and modified or enhanced to optimize their capabilities.

BIBLIOGRAPHY

- Alagaraja, D., 1984. Simple methods for estimation of parameters for assessing exploited fish stocks. Indian J.fish., 31:177-208
- Beckman, D. W., A. L. Stanley, J. H. Render, and C. A. Wilson. 1991. Age and growth-rate estimation of sheepshead Archosargus probatocephalus in Louisiana waters using otoliths. Fishery Bulletin, U.S. 89:1-8.
- Gabriel, W.L. 1985. Spawning stock biomass per recruit analysis for seven Northwest Atlantic demersal finfish species. NMFS-NEFC. Woods Hole Lab. Ref. Doc. 85-04.
- Gabriel, W.L., W.J. Overholtz, S.A. Murawski and R.K. Mayo. 1984. Spawning stock biomass per recruit analysis for seven Northwest Atlantic demersal finfish species, Spring, 1984. NMFS-NEFC Woods Hole Lab. Ref. Doc. 84-23.
- Goodyear, C. P. 1989. Spawning stock biomass per recruit: the biological basis for a fisheries management tool. ICCAT Working Document SCRS/89/82. 10p.
- Hilborn, R. and C. J. Walters. 1992. Quantitative Fisheries Stock Assessment: Choice, Dynamics and Uncertainty. Chapman and Hall, New York. 570 pp.
- Hoenig, J.M. 1983. Empirical use of longevity data to estimate mortality rates. Fish.Bull.NOAA/NMFS, 81(4):898-903
- LDWF. 1991. A stock assessment for Louisiana spotted seatrout, Cynoscion nebulosus. LDWF Fishery Management Plan Series, Number 3 (Draft).
- Mace, P.M. and M.P. Sissenwine. 1993. How much spawning per recruit is enough? pp. 101-118 in S.J.Smith, J.J. Hunt and D. Rivard (eds.) Risk Evaluation and Biological Reference Points for Fisheries Management. Can. Spec. Publ. Fish. Aq. Sci. 120. 442pp.
- National Oceanic and Atmospheric Administration/National Marine Fisheries Service 1995. 1995 Report of the mackerel stock assessment panel. Miami Lab.Con. MIA- 94/95-30 March 1995.
- Pauly, D. 1980. On the interrelationships between natural mortality, growth parameters, and mean environmental temperature in 175 fish stocks. J. Cons. int. Explor. Mer 39(2)175-192.
- Rikhter, V.A. and V.N. Efanov, 1976. On one of the approaches to estimation of natural mortality of fish populations. ICNAF Res.Doc., 76/VI/8:12 p.
- Render, J. H. and C. A. Wilson, 1992. Reproductive biology of sheepshead in the Northern Gulf of Mexico. Trans. Am. Fish. Soc. 121:757-764.
- Sparre, P. and S.C. Venema 1992. Introduction to tropical fish stock assessment, Part 1-Manual. FAO Fish.Tech.Pap., (306) Rev.1:376 p.

Vaughan, D.S. 1987. A stock assessment of the gulf menhaden, Brevoortia patronus, fishery. NOAA NMFS Tech. Rep. 58, 18 pp.

Table 5.1 Regression Output from the Estimation of Disappearance Rates

1994 [*]	•	1995		
Regression Output:		Regression	Output:	
Constant	15.016316	Constant		15.039591
Std Err of Y Est	0.2397288	Std Err of Y Est		0.237857
R Squared	0.9831213	R Squared No. of Observations		0.984179 12
No. of Observations Degrees of Freedom	11 9	Degrees of Freedom	•	10
Degrees of Arecdom	J	Degrees of Freedom	•	10
X Coefficient(s) -0.523334		X Coefficient(s)	-0.496099	
Std Err of Coef. 0.0228572		Std Err of Coef.	0.0198906	
1996		1997		
Regression Output:		Regression	Output:	
Constant	15.188945	Constant		15.77644
Std Err of Y Est	0.3644981	Std Err of Y Est		0.5880099
R Squared	0.9601102	R Squared		0.9114622
No. of Observations	11	No. of Observations		· 11 9
Degrees of Freedom	9	Degrees of Freedom		
X Coefficient(s) -0.511505	i	X Coefficient(s)	-0.539653	•
Std Err of Coef. 0.0347535		Std Err of Coef.	0.0560645	
4000		1999		
1998 Regression Output:		Regression	Output: -	
Constant	14.162138	Constant	O diput.	16.177923
Std Err of Y Est	0.3683201	Std Err of Y Est		0.8169473
R Squared	0.8944275	R Squared		0.8357622
No. of Observations	10	No. of Observations		10
Degrees of Freedom	8	Degrees of Freedom		, 8
X Coefficient(s) -0.333842		X Coefficient(s)	-0.573874	•
Std Err of Coef. 0.0405507	_	Std Err of Coef.	0.0899429	
2000		2001	•	
2000 Regression Output:		Regression	Output:	
Constant	14.349853	Constant		13.434472
Std Err of Y Est	0.6567616	Std Err of Y Est		0.4687798
R Squared	0.7228985	R Squared		0.7836706
No. of Observations	10	No. of Observations		10
Degrees of Freedom	8	Degrees of Freedom		8
X Coefficient(s) -0.330328		X Coefficient(s)	-0.277841	
Std Err of Coef. 0.0723071		Std Err of Coef.	0.051611	
2002				
2002 Regression Output:	•			
Constant Constant	15.33518			
Std Err of Y Est	0.310255			
R Squared	0.9570426			
No. of Observations	10			
Degrees of Freedom	8			

X Coefficient(s) Std Err of Coef.

-0.45602 0.034158

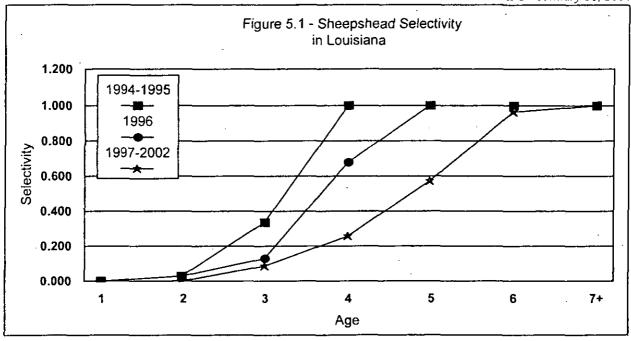
Table 5.2 - Results of Yield Per Recruit and SPR Analysis for Sheepshead

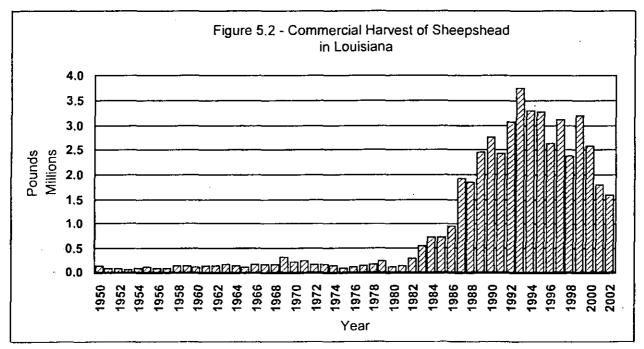
M = 0.2

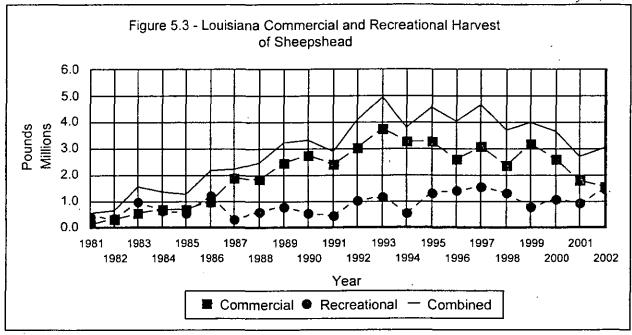
	F Ratio	YPR	SPR	%SPR	%YPR	
Fmax =	51.6724	542.6297	594	11.36%	100.00%	
F0.1 =	0.3437	394.6224	2,877	55.02%	72.72%	Benchmarks
F20% =	9.1205	536.5425	1,046	20.00%	98.88%	
F30% =	2.4540	517.3649	1,569	30.00%	95.34%	
1997 =	0.3397	393.2481	2,887	55.22%	72.47%	
1998 =	0.1338	264.8513	3,778	72.26%	48.81%	
1999 =	0.3739	404.2018	2,800	53.56%	74.49%	Estimates
2000 =	0.1303	260.9248	3,802	72.72%	48.09%	
2001 =	0.0778	188.1420	4,236	81.02%	34.67%	
2002 =	0.2560	357.8359	3,154	60.32%	65.94%	,

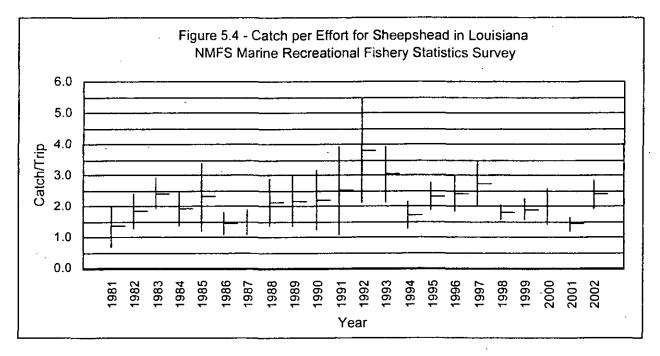
M = 0.3

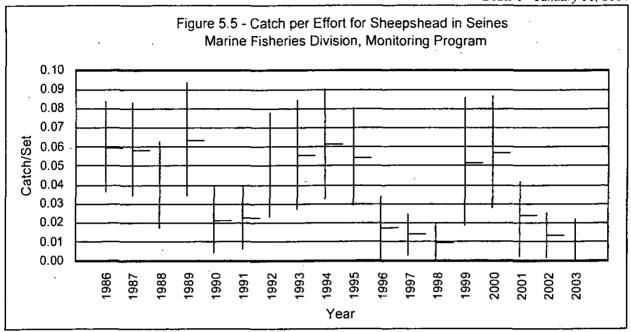
-	F Ratio	YPR	SPR	%SPR	%YPR	
Fmax =	53687092	448.1602	0	0.00%	100.00%	
F0.1 =	0.5570	240.7092	1,601	60.96%	53.71%	Benchmarks
F20% =	33.4831	394.4429	525	20.00%	88.01%	
F30% =	8.6460	366.4702	788	30.00%	81.77%	
1997 =	0.2397	170.3724	1,934	73.64%	38.02%	
1998 =	0.0338	40.7568	2,471	94.09%	9.09%	
1999 =	0.2739	182.0656	1,881	71.63%	40.63%	Estimates
2000 =	0.0303	36.9478	2,485	94.65%	8.24%	
2001 =	0.0000	0.0000	2,626	100.00%	0.00%	
2002 =	0.1560	133.4234	2,095	79.77%	29.77%	

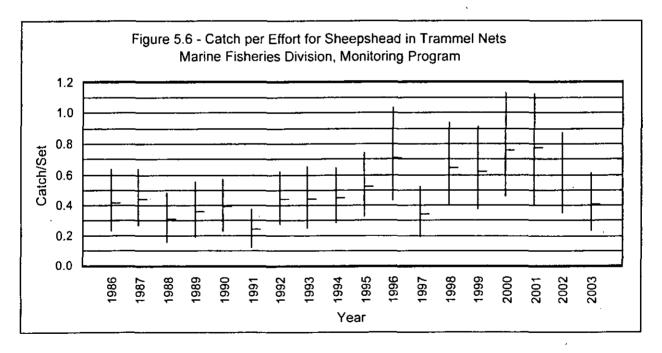












DERELICT CRAB TRAP PRESENTATION Commission - Feb 2004

SLIDE Mr. Chairman and fellow Commission members, I will be making a brief presentation on the Department's derelict crab trap removal program.

SLIDE "What is a derelict crab trap?" is a question we hear often from the general public. For our purposes, a derelict crab trap is defined as any crab trap that is not being actively fished. Consequently, a derelict crab trap may range from a new buoyed trap to an old barnacle encrusted, smashed trap.

SLIDE The issue we are addressing with our program is the large number of derelict crab traps which occur in Louisiana's coastal waters. The solution appears to be simple – that is, remove the traps from the water and bring them ashore where they can be disposed of properly.

However, as we have learned, there were some legal, fisheries, landowner, and logistical issues that had to be addressed and resolved.

SLIDE I will first briefly review the regulatory process. Act 48 of the 2003 Legislative Session gave the Commission the authority to establish a derelict crab trap program, and specified that the Commission designate the following:

*the trap closure area

*who may remove the derelict crab traps

*the disposal sites for the traps and

*the beginning and ending dates of the trap closure

The trap closures were restricted to two time periods:

*up to a 16 day consecutive day period between Feb 1 and Mar 31

*up to a 14 day consecutive day period which includes the opening of the spring inshore shrimp season.

SLIDE The Commission approved a Notice of Intent at the Sept, 2003 meeting to establish a derelict trap removal program in 2004. The rule was published in the January LA Register.

Winter and spring crab trap closures were approved.

The spring closure encompasses a portion of western Vermilion Bay for 9 or 14 days that includes the opening of the spring inshore shrimp season.

The winter closure includes a portion of the upper Terrebonne Bay estuary from Feb 28 - Mar 14, 2004.

Some other stipulations included:

- •1. Anyone can pick up traps
- •2. Traps must be brought to designated disposal sites
- •3. Traps must not be taken outside of the closure area

4. For the winter closure, traps can be removed only during daylight hours

SLIDE The spring closure in western Vermilion Bay includes 198,000 acres, although no crab traps are used on the State Wildlife Refuge and some of the marsh areas.

SLIDE A 182,000 acre area is included in the winter closure in upper Terrebonne Bay.

A large portion of the trap closure area is privately owned. Except for some restricted areas that will be shown on maps distributed to volunteers, the two large landowners in the area have given permission for the volunteers to access their property to collect derelict traps during the closure period.

SLIDE This map shows the closure areas with reference to the entire LA coast.

Relatively small areas were selected to facilitate success of the program in the first year. What we learn in the first year of the program will be applied to future trap sweeps.

SLIDE The spring closure in Vermilion Bay will address deep water traps in open water, with the primary participants being shrimp fishermen who capture traps in their gear.

The following has been accomplished:

- Tentative disposal sites have been selected
- A volunteer information packet has been prepared, and also placed on the internet
- A mail out to local shrimp and crab fishermen is planned for mid-March

SLIDE From this point on, I will be talking about the winter closure in upper Terrebonne Bay. This closure will address shallow water traps in the marsh and bayous, with volunteers from a wide range of user groups picking up traps.

This area was selected because there is a high concentration of derelict crab traps.

Major emphasis has been placed on planning, publicity, and volunteer recruitment.

SLIDE A planning or steering committee was formed last summer. Membership included:

- Coastal Conservation Association
- Barataria-Terrebonne National Estuary Program
- •Crab Task Force
- Louisiana Wildlife Federation
- LSU Sea Grant and Extension Service

We had four meetings to discuss and plan for publicity, volunteer recruitment, volunteer supplies and incentives, and logistics.

SLIDE I think it is appropriate to acknowledge those institutions, organizations, groups, and companies that have helped the program.

First, the planning committee that I mentioned earlier has been invaluable to the program. The program would have been extremely difficult without their help and participation.

With respect to funding, the NOAA Habitat Restoration Center is providing federal funds. In addition, the crab industry as represented by the Crab Task Force has endorsed the dedication of leftover monies from a Section 201 appeal to derelict trap removal. The Gulf States Marine Fisheries Commission is coordinating the gulfwide federal project.

Finally, two landowners, Louisiana Land and Exploration Co. and Apache Minerals Inchave graciously agreed to allow volunteers on most of their property. On areas that are off limits to volunteers, they are asking their leaseholders to participate in the program.

SLIDE Since the fall, there has been several Department news releases and numerous magazine and newspaper articles about the program.

Individuals on the planning committee have been interviewed at least four times on the radio.

An information packet was mailed to all commercial and recreational crab trap fishermen in parishes surrounding and adjacent to the closure area.

The Department, with assistance from LSU Sea Grant, has prepared a brochure and volunteer instruction sheet.

Finally, background information, maps, regulations, and the volunteer instruction sheets are also posted on the derelict crab trap web site.

SLIDE I would like to mention two upcoming media events.

First, the CCA is sponsoring a Pre-Trap Sweep Media Day on Feb 17. The media will be brought out in boats to observe derelict crab traps prior to the trap sweep.

The media will also be invited to document the trap sweep on Feb 28 at the Pt aux Chenes Marina. They will have the opportunity to go on boats to observe the volunteers picking up the traps and also to watch volunteers returning to the disposal site.

SLIDE Obviously, the key to a successful trap sweep is the volunteers. Without volunteers the program cannot succeed.

The CCA and Wildlife Federation have sent notices to their members soliciting volunteers. In addition, recent newspaper articles and our crab fishermen mail out has resulted in numerous inquires about the program.

SLIDE Specific plans for the winter trap sweep are outlined here.

The four designated disposal sites include: Cozy Campers on Robinson Canal; Seabreeze Marina on Bayou Terrebonne; Pointe aux Chenes Marina; and Josh's Marina at Catfish Lake.

A contractor will place dumpsters at each site and haul off the traps for proper disposal.

The primary volunteer days are Feb 28 & Mar 6, with Mar 13 being the bad weather day. However, volunteers may pick up derelict crab traps anytime during the trap closure period from within the trap closure area.

On the main volunteer days, the volunteers will be given maps, instructions, and some supplies. The Department will provide tarps, gloves, garbage bags, and grappling hooks.

In addition, BTNEP will provide free T-shirts and towels for all volunteers.

Dept personnel will also be collecting data, including number of traps, and volunteer time and expenses.

SLIDE In recent years derelict crab trap sweeps have been very successful in other Gulf States.

In 2002 & 2003, over 17,000 derelict crab traps have been collected in Texas, Mississippi, and Alabama.

CLOSING SCENE

This concludes the presentation. Are there any questions?

DERELICT CRAB TRAP VOLUNTEER INFORMATION SHEET Winter Closure: Upper Terrebonne Bay

THANK YOU for your interest in Louisiana's derelict crab trap removal program. The lead agency for this program will be the Louisiana Department of Wildlife and Fisheries (LDWF); however, other institutions and organizations (Barataria - Terrebonne National Estuary Program, Louisiana Crab Task Force, Coastal Conservation Association, Louisiana Wildlife Federation, and Louisiana Sea Grant) have endorsed the program and have been working with the LDWF in developing plans for the removal of derelict crab traps.

This program is volunteer-based and cannot succeed without help from those who enjoy our coastal waters and are willing to work to help make a difference. Your cooperation will facilitate the success of the 2004 derelict crab trap sweep in upper Terrebonne Bay. If the up-coming project is successful, other areas in need of a crab trap sweep will be selected in coming years.

When and Where

The removal of derelict crab traps will take place over a 15-day period from February 28, 2004 through March 13, 2004 within the upper Terrebonne Bay estuary in Lafourche and Terrebonne Parishes as described later.

Regulations and Guidelines

A large portion of the closure area is privately owned. State derelict crab trap regulations do not provide authorization for access to private property; authorization can only be provided by individual landowners. Property owners (i.e., Apache Louisiana Minerals, Inc., Louisiana Land and Exploration Company) have graciously agreed to allow volunteers on portions of their property to retrieve derelict crab traps. Volunteers should comply with the following (please note that other restrictions may be added):

- Access will not be allowed on restricted areas as described later. Larger, more detailed maps will be distributed to volunteers at the disposal sites.
- Access to other nonrestricted private property is solely for derelict crab trap removal during the trap closure period only.
- Respect property and do not litter.

Crab traps remaining in the closure area will be considered abandoned and volunteers will be allowed to retrieve these crab traps, subject to the following rules:

- Crab traps may be removed only from between one-half hour before sunrise to one-half hour after sunset from 6:00 a.m. February 28, 2004 through 6:00 a.m. March 14, 2004.
- Crab traps must eventually be brought to designated disposal sites and may not be possessed outside of the closure area.
- Designated disposal sites in the Terrebonne Bay estuary include:
 - Cozy Campers Campground on Robinson Canal. Located on LA Hwy. 56 between Chauvin and Cocodrie.
 - Seabreeze Marina on Bayou Terrebonne. Located on LA Hwy. 55 south of Montegut and Madison Canal.
 - o Pointe aux Chenes Marina on Cut Off Canal. Located at the end of LA Hwy. 665.
 - Josh's Marina on canal leading to Catfish Lake. Located behind Crab Shack on LA Hwy 3235 in Golden Meadow.
- Crabs and other organisms in the derelict crab traps must be released.

Volunteer Instructions

The primary "volunteer" days are scheduled for the first two Saturdays of the closure (February 28 and March 6), although crab traps may be retrieved at other times as specified earlier. If either "volunteer" day is cancelled due to inclement weather, then Saturday, March 13, will be substituted.

LDWF personnel will be present at each disposal site on February 28 and March 6 beginning at 7:00 a.m. to provide additional instructions, maps, incentives, and supplies (tarps, grappling hooks, garbage bags, and gloves) to the volunteers. LDWF personnel will also collect data and assist with unloading of crab traps. First aid kits will be available if needed. Volunteers are asked to return the grappling hooks so that they may be re-used.

Volunteers may launch their boats at any site, but must bring the derelict crab traps to the designated disposal sites. A launch time between 7:00 and 9:00 a.m. is suggested, although volunteers may launch at any time.

The LDWF will be documenting the number of derelict crab traps collected at each site on the main "volunteer" days. Volunteer time and expenses will also be documented; the volunteer contribution will be used as a portion of the state match for federal funds. Volunteers collecting crab traps when LDWF personnel are not present are asked to submit data (see Data Collection) to the LDWF (see Contact Person).

Other instructions / suggestions include:

- Avoid confrontation with anyone who may claim derelict crab traps from within the trap closure area. The LDWF toll free number (1-800-442-2511) may be used to notify enforcement personnel.
- Volunteers may retrieve crab traps or unattached buoys and lines from anywhere in the non-restricted areas within the closure zone, but should first concentrate in the cleanup area designated for each disposal site to ensure a wider, more complete coverage of the entire area.
- To minimize travel time to and from the disposal sites, larger "mother vessels" may be present to collect crab traps from smaller boats. The mother vessels will bring the crab traps back to the disposal sites at the end of the day.
- The grappling hook can be used to retrieve crab traps that cannot be reached by boat.
- Remove and discard all organisms and any left-over bait from the crab trap.
- To reduce entanglement, cut the buoy line and place the buoy and line in a garbage bag.
- When retrieving crab traps at times other than the primary volunteer days, place the crab traps, buoys, and lines in the disposal receptacle. If possible, flatten the crab traps to maximize receptacle space.
- Do not remove crab traps from camp sites.

Safety is critical. The following are safety suggestions:

- Wear USCG approved personal flotation devices at all times.
- Wear appropriate protective clothing and heavy-duty footwear.
- Communication equipment such as cell phones and VHF radios (channel 68 0r 69) are recommended in case of emergency.
- Use caution when handling traps, especially those with barnacles, oysters, or exposed rusty wire.
- Antiseptics should be applied to cuts and abrasions.
- Use proper lifting techniques with crab traps.
- Leave crab traps that are too heavy to lift.
- Secure crab traps in boat as they are collected.

Data Collection

The following information is needed from volunteers at the end of the day: Name; Address; Organization Represented; Date; Number of Crab Traps Retrieved; Number of Volunteers; Hours Worked; Trip Expenses (boat fuel, food, launch fee). As indicated earlier, this information will be used for a federal completion report. Forms will be distributed at the disposal sites or may be printed from the derelict crab trap web site (www.blue-crab.net/form.html).

How to Volunteer

In order to better manage volunteer effort and crab trap retrieval activities, volunteers are asked to sign up in advance. Please notify the contact person (see below).

Contact Person

Vince Guillory

Address: Louisiana Department of Wildlife and Fisheries; PO Box 189; Bourg, LA 70343

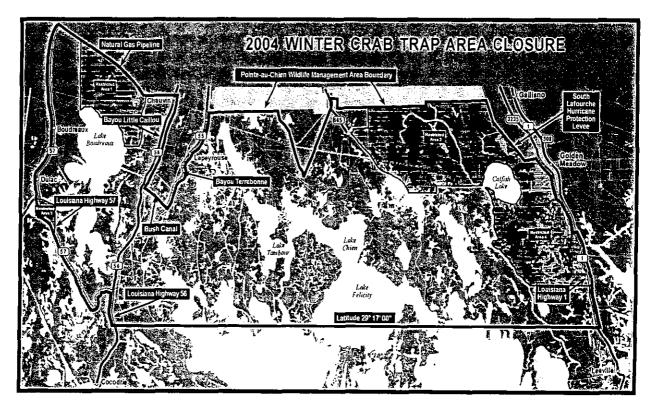
Phone: (985)594-4139

• EMAIL: guillory v@wlf.state.la.us

Closure Area Map and Boundaries

The closure area is bounded by the following:

- from a point originating at the southern boundary of the Pointe au Chenes Wildlife Management Area at the South Lafourche Hurricane Protection Levee,
- thence west along the southern boundary of the Pointe aux Chenes Wildlife Management Area to the Humble Canal,
- thence west along the northern shoreline of Humble Canal to its intersection with Bayou Terrebonne,
- thence south along the western shoreline of Bayou Terrebonne to its intersection with Bush Canal,
- thence west along the northern shoreline of Bush Canal to its intersection with Bayou Little Caillou,
- thence north along the eastern shoreline of Bayou Little Caillou to the Gulf South / South Coast Natural Gas Pipeline in Chauvin,
- thence northwest along the Gulf South / South Coast Natural Gas Pipeline to LA Highway 57,
- thence south and then southeast along LA Highway 57 to its intersection with LA Highway 56,
- thence south along LA Highway 56 to latitude 29 degrees 17 minutes 00 seconds N,
- thence east along latitude 29 degrees 17 minutes 00 seconds N to LA Highway 1,
- thence north along LA Highway 1 to the South Lafourche Hurricane Protection Levee,
- thence north along the South Lafourche Hurricane Protection Levee and terminating at the southern boundary of the Pointe aux Chenes Wildlife Management Area.



The boundaries of the trap closure area are well defined except for a portion of the southern boundary between Highway 56 (Bayou Little Caillou) and Highway 1 (Bayou Lafourche); orange-painted PVC pipe will be placed at strategic locations along this boundary. GPS units are also suggested to delineate the boundary.

Larger, more detailed maps that show the restricted areas will be available at the disposal sites or at the derelict crab trap web site. Restricted areas within the closure area include:

- 1. Restricted Area 1 Apache Louisiana Minerals, Inc. property to the north and east of Lake Boudreaux; within this area Bayou Chauvin is state owned.
- 2. Restricted Area 2 Harry Bourg Corporation property north and south of Bayou Dulac; within this area Bayou Dulac is state owned.
- 3. Restricted Area 3 Louisiana Land and Exploration Company property east of Bayou Pointe aux Chenes and south of the Pointe aux Chenes Wildlife Management Area boundary to Apache Louisiana Minerals, Inc. property; within this area Catfish Lake, Grand Bayou, Grand Bayou Blue, Bayou Salle, Bayou Bouillon, Bayou Faleau, Bayou Blue, and Bayou Monnaie are state owned. Volunteers using Josh's Marina are allowed to access Catfish Lake through Louisiana Land and Exploration property.
- 4. Restricted Area 4 Apache Louisiana Minerals, Inc. property east of Grand Bayou Blue and south of Catfish Lake to the Louisiana Land and Exploration Company property north of Laurier Bay.

Source: Derelict Crab Trap Removal Program Web site, www.blue-crab.net/derelict.html.

LOUISIANA'S DERELICT CRAB TRAP REMOVAL PROGRAM

BACKGROUND INFORMATION

Crab Traps

Derelict Traps

<u>Legislation / Administrative</u> Process

Programs In Other States

LOUISIANA'S PROGRAM
Winter Closure Regulations
Spring Closure Regulations
Area/Time Justifications
Project Plans
Program Needs

VOLUNTEER INFORMATION

<u>Terrebonne Bay Winter</u> Closure

Vermilion Bay Spring Closure
Data Collection Form

INTERNET LINKS Louisiana News: [1] [2]

GSMFC Derelict Trap Page Ghost Traps, Shallow Water

Angler

Alabama Program

Florida Program Rules

NEWS AND ANNOUNCEMENTS

Volunteer Information: Terrebonne Bay Winter Closure Welcome to the Louisiana Derelict Crab Trap Removal Program Web Site. The lead agency for the derelict trap removal program will be the Louisiana Department of Wildlife and Fisheries (LDWF). However, many other organizations, government intities, and individuals are expected to participate. The trap removal program will be patterned after successful trap removal programs in Texas, Mississippi, and Alabama.

If you would you like additional information, please contact Vince Guillory by phone [985-594-4139], mail [Louisiana Department of Wildlife and Fisheries; PO Box 189; Bourg, LA 70343], or EMAIL [guillory w@wlf.state.la.us].

ACKNOWLEDGEMENTS

The 2004 derelict crab trap removal program would not be possible without the support and assistance of many institutions, organizations, and individuals:

Funding

- NOAA Habitat Restoration Center for providing federal funds
- The crab industry for dedicating leftover monies from a Section 201 petition to Louisiana's derelict crab trap removal program
- The Gulf States Marine Fisheries Commission for coordinating the gulfwide federal aid derelict crab trap removal project

<u>Landowners</u>—For allowing volunteers volunteers access to private property to collect derlict crab traps.

- Apache Louisiana Minerals Inc.
- Burlington Resources

Planning and Support

- Barataria-Terrebonne National Estuary Program
- Crab Task Force
- Coastal Conservation Association
- Louisiana Wildlife Federation
- LSU Sea Grant

Volunteer Information: Vermilion Bay Winter Closure

DISPOSAL SITES: The designaated disposal sites were announced on the Department of Wildlife and Fisheries web_site.

WWL RADIO
APPEARANCE: On
Thursday night, January
29, on the Don Dubuc
Outdoor Show, the derelict
crab trap program will be
discussed.

NUMBER OF VISITORS = 368

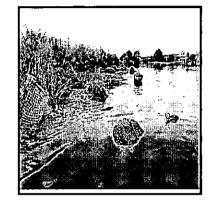
[BLUE CRAB HOME PAGE]

• LSU Cooperative Extension Service

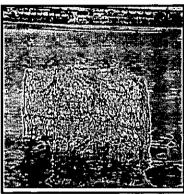
Trap Collection

• The wonderful volunteers!

DERELICT TRAPS



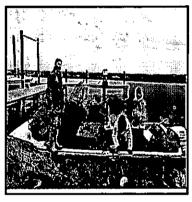
DERELICT TRAP



RETRIEVING TRAPS



UNLOADING TRAPS



Hawkins-Falcon, Susan

From:

Sent:

Courtney, Joel Monday, February 09, 2004 8:43 AM Hawkins-Falcon, Susan

To:

Subject:

Commission Meeting Information numbers

Information and Resource Library numbers 2,531 visitors

Information Request:

Email

566

Phone

373

Standard Mail 88

Reception Desk (front desk)

Phone calls logged: 8, 545 Visitors logged: 3, 879

.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Ju	ne 2					
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

SCHEDULE FOR FINAL RULES TO BE PUBLISHED IN STATE REGISTER

JAN-04 RULE - Removal of Abandoned Crab Traps

MAY-04 RULE - Spotted Seatrout Management Measures

RULE - Public Oyster Seed Ground Addition - Lake Borgne

MONTHLY CIVIL RESTITUTION REPORT

PERIOD	NO. CASES ASSESSED	AMOUNT ASSESSED	CREDIT FOR SALE GOODS	NO. CASES PAID	AMOUNT PAID	DISCOUNTS TAKEN	PERCENT DOLLARS PAID	PERCENT CASES PAID
FISCAL YEAR 1993-94								
July, 1993	25	\$21,039.00	(\$9,778.00)	29	\$4,855.00	\$2,545.00		
Aug., 1993	53	\$44,922.00	(\$1,137.00)	41	\$7,950.00	\$3,603.00		
Sept., 1993	42	\$137,635.00	(\$17,938.00)	35	\$6,783.00	\$3,048.00		
Oct., 1993	49	\$21,471.00	(\$11,282.00)	40	\$3,285.00	\$1,519.00		
Nov., 1993	57	\$31,207.00	(\$13,260.00)	32	\$3,053.00	\$2,845.00		
Dec., 1993	53	\$13,777.00		27	\$6,507.00	\$6,713.00		
Jan., 1994	38	\$18,918.00		32	\$4,423.00	\$2,831.00		
Feb., 1994	68	\$38,131.00	(\$8,238.00)	46	\$9,124.00	\$5,993.00		
Mar., 1994	38	\$22,739.00	(\$2,482.00)	51	\$10,854.00	\$6,796.00		
April, 1994	14	\$44,732.00	(\$1,404.00)	27	\$7,307.00	\$4,632.00		
May, 1994	10	\$4,504.00	(\$165.00)	7	\$5,447.00	\$3,808.00		
June, 1994	29	\$26,167.00	(\$2,986.00)	12	\$1,886.00	\$1,214.00		
Total FY 1994	476	\$425,242.00	(\$68,670.00)	379	\$71,474.00 ·	\$45,547.00	27.5%	79.6%
FISCAL YEAR 1994-95					•			
July, 1994	17	\$2,127.00	(\$335.00)	23	\$2,101.00	\$1,437.00		
Aug., 1994	. 41	\$96,403.00	(\$3,035.00)	20	\$1,010.00	\$605.00		
Sept., 1994	34	\$14,614.00	(\$14,002.00)	26	\$2,596.00	\$2,342.00	-	
Oct., 1994	94	\$17,426.00	(\$8,677.00)	38	\$2,922.00	\$3,179.00		<i>a</i> -
Nov., 1994	43	\$103,592.00		45	· \$3,992.00	\$2,803.00	صار	
Dec., 1994	68	\$31,400.00		35	\$4,315.00	\$2,329.00		
Jan., 1995	55	\$27,601.00		52	\$7,493.00	\$4,921.00		
Feb., 1995	70	\$61,119.00		41	\$6,472.00	\$3,973.00		
Mar., 1995	31	\$25,072.00		44	\$8,315.00	\$4,737.00		
Apr., 1995	13	\$15,353.00		16	\$3,565.00	\$1,538.00	<u>(</u>	
May., 1995	23	\$11,632.00		16	\$4,315.00	\$654.00	!	
June 1995	45	\$31,008.00		18	\$2,630.00	\$1,025.00	L	
Total FY 1995	534	\$437,347.00	(\$26,049.00)	374	\$49,726.00	\$29,543.00	18.1%	70.0%
FICAL YEAR 1995-96								
July, 1995	0	\$0.00						
Aug., 1995	46	\$17,425.00	:	27	\$9,028.00	\$1,729.00		
Sept., 1995	1	\$125.00		21	\$3,093.00	\$2,049.00		
Oct., 1995	122	\$206,244.00		29	\$2,720.00	\$1,161.00		
Nov., 1995	55	\$23,124.00		62	\$10,151.00	\$6,383.00		
Dec., 1995	50	\$18,607.26		32	\$4,780.66	\$2,802.76		
Jan., 1996	49	\$13,814.88	(\$15,296.45)	36	\$5,296.51	\$3,472.89		
Feb., 1996	50	\$14,716.97	(+,=,	38	\$5,777.53	\$3,416.91		
Mar., 1996	33	\$24,936.91		36	\$6,035.12	\$3,421.75	•	
Apr., 1996	30	\$11,006.66		36	\$7,173.12	\$2,711.54		
May., 1996	23	\$7,989.34		24	\$3,941.69	\$2,020.29		
June 1996	50	\$22,151.31		16	\$2,790.02	\$1,182.23		
Total FY 1996	509	\$360,141.33	(\$15,296.45)	357	\$60,786.65	\$30,350.37	25.3%	70.1%
FISCAL YEAR 1996-97 July, 1996	40	\$71,894.13	•	32	\$5,249.93	\$2,947.96		
	32	\$5,362.64		. 32	\$6,254.59	\$3,783.69		
Aug., 1996 Sept., 1996	32 41	\$7,210.00		29	\$2,259.96	\$1,326.58		
• •	29	\$11,092.53		25	\$3,697.89	\$2,261.98		
Oct., 1996 Nov., 1996	29	\$10,009.10		22	\$1,624.63	\$698.02		
	13	\$238,466.04		22	\$5,877.18	\$2,121.53		
Dec., 1996	13 27	\$11,755.22		17	\$4,393.30	\$2,121.03		•
Jan., 1997 Feb. 1007	27 47	\$11,755.22 \$18,520.87		42	\$8,579.84	\$2,377.09 \$5,552.63		
Feb., 1997					\$4,999.59	\$2,757.67		
Mar., 1997	26.	\$13,434.02		27 15	\$2,322.88	\$2,757.67 \$1,298.66		
Apr., 1997	10	\$2,908.87			\$2,322.88 \$5,198.91	\$1,399.21		
May., 1997	20	\$11,682.70		15				
June 1997	5	\$8,036.58		10	\$2,335.24	\$765.34		
Total FY 1997	310	\$410,372.70	\$0.00	288	\$52,793.94	\$27,290.36	19.5%	92.9%
FICAL YEAR 1997 - 98					** ** * * * * * * * * * * * * * * * *	***		
July, 1997	10	\$2,811.71		8	\$1,584.67	\$823.11		
Aug., 1997	14	\$8,741.30		8	\$1,496.49	\$779.14		
Sept., 1997	29	\$19,926.37		12	\$2,051.78	\$1,278.04		
Oct., 1997	12	\$4,716.81		23	\$3,184.83	\$2,063.89		i
Nov., 1997	23	\$54,965.34		10	\$2,424.86	\$1,218.28		
Dec., 1997	25	\$36,881.09		15	\$4,376.97	\$2,775.66		
Jan., 1998	42	\$30,025.81		17	\$5,300.40	\$3,533.66		
Feb., 1998	37	\$31,164.95		29	\$22,961.69	\$8,501.18		
Mar., 1998	9	\$13,273.45		32	\$9,406.56	\$4,371.53		

A					_			
Apr., 1998	10	\$5,628.21		10	\$2,602.62	\$1,279.77		
May., 1998	0	\$225.00		8	\$2,885.02	\$950.46		
June 1998	5	\$2,414.03		6	\$1,041.54	\$98.00		
T-4-1 EV 4000								
Total FY 1998	216	\$210,774.07	\$0.00	178	\$59,317.43	\$27,672.72	41.3%	82.4%
FICAL YEAR 1998 - 99						•		
July, 1998	9	\$1,390.43		•	£4.004.00	6740.75		
Aug., 1998	10	\$2,240.70		8	\$1,964.20	\$716.75		
Sept., 1998	8			10	\$1,048.28	\$372.47		
Oct., 1998		\$2,768.96		11	\$2,000.36	\$1,148.23		
Nov., 1998	22	\$28,704.85		14	\$1,860.17	\$807.48		
	19	\$9,137.79		11	\$1,765.97	\$1,092.43		
Dec., 1998 Jan., 1999	23	\$11,959.10		27	\$4,441.02	\$2,040.71		
	41	\$21,179.55		18	\$6,621.63	\$3,838.22		
Feb., 1999	45 45	\$26,236.24		41	\$12,119.09	\$6,923.61		
Mar., 1999	15	\$7,549.57		33	\$8,281.77	\$4,138.44	•	
Apr., 1999	9	\$8,013.54		14	\$3,035.82	\$1,388.41		
May., 1999	5	\$5,161.23		5	\$905.50	\$405.00		
June 1999	7	\$3,719.01		13	\$3,011.06	\$533.83		
Total FY 1999	213	£129 060 07	60.00	205	647.054.07	#00 40F F0	55.00/	00.00/
Total F1 1555	213	\$128,060.97	\$0.00	205	\$47,054.87	\$23,405.58	55.0%	96.2%
FISCAL YEAR 1999-2000		٠						
July, 1999	5	\$1,556.38		9	60 007 50	61 100 01		
Aug., 1999	10	\$2,510,83			\$2,287.53	\$1,198.81 \$512.72		
- ·			ØE 204 00		\$2,455.38	\$513.73		
Sept., 1999	6	\$2,032.19	\$5,324.80	28	\$3,563.06	\$475.93		
Oct., 1999	11	\$4,452.31	\$567.75	25	\$2,775.48	\$557.41		
Nov., 1999	14	\$8,634.64		26	\$3,250.96	\$1,322.96		
Dec., 1999	24	\$15,891.96	•	19	\$3,862.76	\$2,126.27		
Jan., 2000	49	\$27,872.14		28	\$7,952.94	\$3,814.02		
Feb., 2000	21	\$11,039.59		30	\$10,159.24	\$6,216.42		
Mar., 2000	19	\$9,873.21		31	\$6,709.07	\$3,555.40		
Apr., 2000	12	\$7,897.70		17	\$2,932.41	\$1,512.54		
May, 2000	7	\$5,039.46	\$293.60	20	\$7,062.23	\$3,164.00		
June, 2000	16	\$14,566.88		18	\$5,766.59	\$1,852.12		
Total FY 2000	194	\$111,367.29	\$6,186.15	200	650 777 05	COC 200 C4	700/	4070/
1021112000	154	φ111,307.29	φυ,1ου.15	266	\$58,777.65	\$26,309.61	76%	137%
FISCAL YEAR 2000-01			•					
July, 2000	2	\$865.01		14	\$1,948.03	\$154.01		
Aug.,2000	20	\$15,837.60		17	\$3,302.27	\$1,063.92		
Sept.,2000	12	\$3,562.26		23				
Oct.,2000	18	\$122,696.24			\$8,718.21	\$1,351.41		
Nov.2000		\$15,851.30		29	\$7,457.98	\$490.16		
Dec., 2000	13			22	\$4,038.50 \$7,480.00	\$309.30		
Jan., 2001	40	\$30,234.92		24	\$7,189.98	\$462.13		
	28	\$15,923.38		25	\$7,611.66	\$833.60		
Feb., 2001	35	\$20,181.39		30	\$18,568.12	\$1,917.82		
Mar., 2001	8	\$5,956.83		37	\$15,724.02	\$753.86		
Apr.,2001	20	\$24,145.82		22	\$4,856.39	\$225.93		
May 2001	. 4	\$1,677.36		20	\$3,700.77	\$313.58		
June 2001	3	\$932.20		31	\$8,433.81	\$346.90		
Total FY 2001	202	\$257 064 24	en nn	204	#04 F40 74	#0.000.00	000/	4.450/
10tai F i 2001	203	\$257,864.31	\$0.00	294	\$91,549.74	\$8,222.62	39%	145%
FISCAL YEAR 2001-02				•				
July, 2001	4	\$4,290.29		25	\$6,328.36	\$293.54		
Aug., 2001	6	\$9,452.69		18	\$0,328.30 \$2,984.52	Ψ&υυ.υΨ		
Sept., 2001	ő	\$175.00		25	\$4,157.32	\$66.29		
Oct., 2001	15	\$6,439.06		18	\$3,174.66	\$67.32		•
Nov., 2001	15	\$5,913.63		24	\$3,174.00	\$194.66		
Dec., 2001	36	\$21,868.88		20	\$5,384.19	\$194.66 \$502.17		
Jan., 2002	56	\$27,650.44		38	\$11,100.99	\$1,008.09		
Feb., 2002	27	\$14,211.31	\$620.55	- 37	\$20,017.87	\$861.63		
Mar., 2002	8	\$6,765.68	\$020.33					
Apr., 2002	20	\$11,296.19		36 10	\$10,061.89 \$2,196.02	\$419.16 \$40.33		
May, 2002			¢11 007 00	19 27	\$2,196.02	\$49.33 \$539.70		
May, 2002 June, 2002	3 3	\$30,852.57 \$8,636.08	\$11,887.80	27 23	\$8,265.67 \$3,418.15	\$538.72 \$87.91		
Julie, 2002	3	\$0,030.00		23	\$3,416.15	16.104		
Total FY 2002	193	\$147,551.82	\$12,508.35	310	\$81,022.05	\$4,088.82	58%	161%
					-			
FISCAL YEAR 2002-03								
July, 2002	8	\$6,915.26		20	\$3,308.14	\$111.90	•	
Aug., 2002	12	\$11,943.66		24	\$4,010.98	\$47.33		
Sept., 2002	6	\$1,944.83		19	\$4,624.36	\$85.25		
Oct., 2002	24	\$12,167.99		25	\$7,131.20	\$442.95		
Nov., 2002	21	\$11,013.41		27	\$8,688.51	\$624.99		
Dec., 2002	32	\$15,763.99		23	\$7,660.18	\$689.95		
	•				. •			

Jan.,2003 Feb.,2003 Mar., 2003 Apr., 2003	58 33 13 16	\$32,391.55 \$18,426.48 \$3,668.17 \$5,661.77		22 40 28 23	\$7,149.09 \$13,988.00 \$9,342.76 \$3,004.29	\$562.34 \$1,122.57 \$643.57 \$269.02		
May, 2003	11	\$5,801.24		20	\$5,252.90	\$293.69		
June, 2003	11	\$6,700.71		24	\$6,9 07.49	\$224.85		
Total FY 2003	245	\$132,399.06	\$0.00	\$295.00	\$81,067.90	\$5,118.41	65%	120%
FISCAL YEAR 2003-04								
July, 2003	7	\$1,742.90		17	\$3,502.99	\$30.27		
Aug., 2003	13	\$5,254.98		16	\$3,131.76	\$126.78		
Sept., 2003	13	\$15,161.55		17	\$3,797.61	\$285.74		
Oct., 2003	14	\$14,153.21		24	\$6,084.13	\$188.45		
Nov., 2003	17	\$7,594.12		18	\$4,500.13	\$245.00		
Dec., 2003	45	\$22,244.61		23	\$8,965.74	\$702.59		
Jan., 2004	32	\$17,609.03		22	\$7,016.24	\$685.11		
Feb., 2004								
Mar., 2004							•	
Apr., 2004								
May, 2004					•			
June, 2004								

ENF_521U LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES CIVIL RESTITUTION ACTIVITY REPORT

PAGE:

\$0.00

DATE: 02/02/2004

CURRENT MONTH

01/01/2004 TO 01/31/2004

	# CASES	AMOUNT
ORIG RESTITUTION VALUES ENTERED	32	\$17,459.03
HEARING COSTS ASSESSED SALE OF CONFISCATED COMMODS SALES EXCEEDING RESTITUTION	6 0	\$150.00 \$0.00 \$0.00
	=======================================	=======================================
RESTITUTION ASSESSED	32	\$17,609.03
PAYMENTS	20	\$6,961.24-
PAYMENTS AFTER PAST DUE NOTICE	0	\$0.00
PAYMENTS AFTER REVOKED NOTICE	2	\$55.00-
PAYMENTS FROM COLLECTION EFFORT	0	\$0.00
PAYMENTS FROM HRG COST ASSESSED	0	\$0.00
DISCOUNTS FOR TIMELY PAYMENTS	15	\$6 85. 1 1-
• OVERPAYMENTS	1	\$0.34
REFUND OF OVERPAYMENT	0	\$0.00
APPLIED CONFISCATED COMMODS	0	\$0.00
APPLIED EXCEEDING BALANCE DUE	0	\$0.00
REFUND OF CONFISCATED COMMOD.	0	\$0.00
RETURNED CHECKS	0	\$0.00
MISC. ADJUSTMENTS		
DEBITS	0	\$0.00
CREDITS	0	\$0.00
REASSESSMENTS		·
DEBITS	0	\$0.00
CREDITS	0	\$0.00
WRITE-OFFS	0	\$0.00
ASSESSMENTS WITHDRAWN	0	\$0.00
ADJUDICATION ADJUSTMENTS	4	\$0.00
FOUND NOT RESPONSIBLE	. 0	\$0.00
DISMISSED BY D.A.	0	\$0.00
CASES VOIDED BY ENFORCEMENT	0	\$0.00
OVERTURNED ON APPEAL	0	\$0.00
DISMISSED BY ADMIN LAW	1	\$524.54-
	= = = = = = = = .	
FOOTNOTE:		

FORFEIT OF CONFISCATED COMMODS

ENF_521U LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES CIVIL RESTITUTION ACTIVITY REPORT

PAGE:

\$0.00

DATE: 02/02/2004

FISCAL YEAR TO DATE 07/01/2003 TO 01/31/2004

	# CASES	AMOUNT
ORIG RESTITUTION VALUES ENTERED	141	\$82,260.40
HEARING COSTS ASSESSED SALE OF CONFISCATED COMMODS	60 0	\$1,500.00 \$0.00
SALES EXCEEDING RESTITUTION	· 0 :====================================	\$0.00 ====== = ============================
. DECEMBER OF A CONTROL .	7.42	402 760 40
RESTITUTION ASSESSED	141	\$83,760.40
PAYMENTS	95	\$33,422.87-
PAYMENTS AFTER PAST DUE NOTICE	0	\$0.00
PAYMENTS AFTER REVOKED NOTICE	8	\$1,265.73-
PAYMENTS FROM COLLECTION EFFORT	6	\$1,935.70-
PAYMENTS FROM HRG COST ASSESSED	15	\$375.00-
DISCOUNTS FOR TIMELY PAYMENTS	58	\$2,263.94-
■ OVERPAYMENTS	8	\$2.81
REFUND OF OVERPAYMENT	6	\$554.16
APPLIED CONFISCATED COMMODS	0	\$0.00
APPLIED EXCEEDING BALANCE DUE	0	\$0.00
REFUND OF CONFISCATED COMMOD.	0	\$0.00
RETURNED CHECKS	0	\$0.00
MISC. ADJUSTMENTS	-	,
DEBITS	0	\$0.00
CREDITS	0	\$0.00
REASSESSMENTS	· ·	4
DEBITS	0	\$0.00
CREDITS	2	\$1,605.00-
WRITE-OFFS	1	\$274.77-
ASSESSMENTS WITHDRAWN	2	\$2,922.61-
ADJUDICATION ADJUSTMENTS	. 5	\$0.91-
FOUND NOT RESPONSIBLE	2	\$1,049.08-
DISMISSED BY D.A.	0	\$0.00
CASES VOIDED BY ENFORCEMENT	0	\$0.00
OVERTURNED ON APPEAL	Ö	\$0.00
DISMISSED BY ADMIN LAW	2	\$1,376.69-
		•
FOOTNOTE:		-
LOOTHOIE.		

FORFEIT OF CONFISCATED COMMODS

ENF 521U LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES CIVIL RESTITUTION ACTIVITY REPORT

INCEPTION TO DATE 01/31/2004

CASES AMOUNT \$3,315,873.00 ORIG RESTITUTION VALUES ENTERED 4,776 \$11,450.00 HEARING COSTS ASSESSED 436 331 \$269,865.45-SALE OF CONFISCATED COMMODS SALES EXCEEDING RESTITUTION 138 \$58,209.82 \$3,115,667.37 RESTITUTION ASSESSED 4,776 \$725,730.36-3,220 PAYMENTS PAYMENTS AFTER PAST DUE NOTICE 33 \$8,624.04**-**PAYMENTS AFTER REVOKED NOTICE 86 \$32,849.55-33 \$25,381.92-PAYMENTS FROM COLLECTION EFFORT 212 \$5,500.00-PAYMENTS FROM HRG COST ASSESSED 2,252 \$263,776.22-DISCOUNTS FOR TIMELY PAYMENTS \$98.02 OVERPAYMENTS 136 70 \$12,392.02 REFUND OF OVERPAYMENT 17 \$44,255.65-APPLIED CONFISCATED COMMODS \$6,780.54 5 APPLIED EXCEEDING BALANCE DUE 8 \$45,896.70 REFUND OF CONFISCATED COMMOD. RETURNED CHECKS 1 \$61.75 MISC. ADJUSTMENTS 3 \$55.00 DEBITS \$10.22-13 CREDITS REASSESSMENTS \$6,881.15 21 DEBITS \$38,666.90-CREDITS \$1,480,878.11-1,058 WRITE-OFFS \$4,717.56-ASSESSMENTS WITHDRAWN 9 \$21,075.49-ADJUDICATION ADJUSTMENTS 36 93 \$170,105.37-FOUND NOT RESPONSIBLE \$2,134.47-1 DISMISSED BY D.A. \$559.32-CASES VOIDED BY ENFORCEMENT 2 \$524.54-OVERTURNED ON APPEAL \$7,414.87-DISMISSED BY ADMIN LAW \$355,627.96 313 ** TOTAL OUTSTANDING

FOOTNOTE:

FORFEIT OF CONFISCATED COMMODS

38 \$106,941.70 *

PAGE:

DATE: 02/02/2004

	LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES	PAGE:	4
_	CIVIL RESTITUTION ACTIVITY REPORT	DATE:	02/02/2004

$\lambda \cap T \setminus C$	\triangle E	CATE	ΔE	CONTETECNMEN	COMMODITIES
ALTINET	()H	SALE	() H	CUNIFISCALED	(L) V V L) 1 1 1 1 1 1 1 1 1

VIOLATION DATE UNKNOWN	0	\$0.00
1 - 30 DAYS	0	\$0.00
31 - 60 DAYS	1	\$7,443.90
61 - 90 DAYS	4	\$8,430.35
91 - 120 DAYS	4	\$1,772.66
121 - 150 DAYS	14	\$24,431.64
151 - 180 DAYS	12	\$3,328.44
181 - 365 DAYS	35	\$22,692. 7 5
OVER ONE YEAR	59	\$58,932.09
OVER TWO YEARS	109	\$97,898.31
OVER THREE YEARS	978 ·	\$682,460.79
		=======================================
** TOTAL AGING	1,216	\$907,390.93

AGING OF OUTSTANDING CASES

COLLECTIONS WITH AGENCY:		
CAN NOT BE INVOICED	1	\$214.64
CURRENT	28	\$15,670.77
1 - 30 DAYS	: 29	\$14,128.90
31 - 90 DAYS	9	\$8,334.98
91 - 180 DAYS	· 15	\$18, 4 54.76
181 - 365 DAYS	38	\$22,158.71
OVER ONE YEAR	99	\$102,604.58
COLLECTIONS WITH PRIVATE	COLLECTIONS FIRM:	
1 - 90 DAYS	0	\$0.00
91 - 180 DAYS	0	\$0.00
181 - 365 DAYS	0	\$0.00
OVER ONE YEAR	. 89	\$85,550.52
AMOINIM INTERN DEOMISCH.	·	
AMOUNT UNDER PROTEST:	0	\$0.00
1 - 180 DAYS	. 0	\$0.00 \$549.54
181 - 365 DAYS	1	•
OVER ONE YEAR .	4	\$87,960.56
	•	
** TOTAL AGING	313	\$355,627.96

ENF 525U

LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES

CLASS I ACTIVITY REPORT

PAGE:

DATE: 02/02/2004

CURRENT MONTH 01/01/2004-01/31/2004

		# CASES	AMOUNT
	FINES HEARING COSTS	303	\$18,700.00
	DEBITS	74	\$1,850.00
	CREDITS	2	\$75.00-
	LATE CHARGES		
	DEBITS	89	\$722.50
	CREDITS	0	\$0.00
		==:	=======================================
	TOTAL DUE		\$21,197.50
====	==== ============================== ======		
	PAID IN FULL	218	\$13,990.00-
	PARTIAL PAYMENTS	8	\$475.00-
÷	ATTORNEY GENERAL COLLECTIONS	0	\$0.00
	ATTORNEY GENERAL FEES	0	\$0.00
	DEPT OF REVENUE COLLECTIONS	0	\$0.00
	DEPT OF REVENUE FEES	0	\$0.00
	WRITE-OFFS	0	\$0.00
	OVERPAYMENTS	0	\$0.00
	REFUNDS	2	\$77.50
	RETURNED CHECKS	0	\$0.00
	MISC CHANGES		
	DEBITS	0	\$0.00
	CREDITS	0	\$0.00
	ADJUSTMENTS TO VIOLATION	_	****
	DEBITS	1	\$100.00
	CREDITS	0	\$0.00
	VOIDS	10	\$550.00-
	NOT GUILTY	0	\$0.00
	DISMISSED BY ADMIN LAW	1	\$50.00-
	DISMISSED BY ENFORCEMENT	0	\$0.00 \$0.00
	GUILTY/FINE WAIVED .	0	\$0.00
	OVERTURNED ON APPEAL	0	φυ.υυ

OVERTURNED ON APPEAL

ENF 525U LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES

CLASS I ACTIVITY REPORT FISCAL YEAR TO DATE 07/01/2003-01/31/2004

PAGE:

\$0.00

DATE: 02/02/2004

	# CASES	AMOUNT	
FINES HEARING COSTS	4,121	\$238,490.00	
DEBITS	2,584	\$70,007.50	
CREDITS	12	\$550.00-	
LATE CHARGES		· ·	
DEBITS	888	\$7,483.25	
CREDITS	0	\$0.00	
	. ===	====================================	
TOTAL DUE		\$315,430.75	
 =======================================		::::::::::::::::::::::::::::::::::::::	==
PAID IN FULL	4,009	\$245,443.25-	
PARTIAL PAYMENTS	113	\$6,183.50-	
ATTORNEY GENERAL COLLECTIONS	0	\$0.00	
ATTORNEY GENERAL FEES	0	\$0.00	
DEPT OF REVENUE COLLECTIONS	2	\$77.00-	
DEPT OF REVENUE FEES	2	\$8.00-	
WRITE-OFFS	0	\$0.00	
OVERPAYMENTS	11	\$105.50	
REFUNDS	37	\$1,017.50	
RETURNED CHECKS	5	\$300.00	
MISC CHANGES			
DEBITS	5	\$100.00	
CREDITS	0	\$0.00	
ADJUSTMENTS TO VIOLATION			
DEBITS	7	\$450.00	
CREDITS'	3	\$100.00-	
VOIDS	66	\$3,500.00-	
NOT GUILTY	21	\$1,150.00-	
DISMISSED BY ADMIN LAW	. 14	\$950.00-	
DISMISSED BY ENFORCEMENT	0	\$0.00	
GUILTY/FINE WAIVED	1	\$50.00-	
OURDENIED ON ARRENT	^	40.00	

ENF 525U LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES CLASS I ACTIVITY REPORT

PAGE:

DATE: 02/02/2004

INCEPTION TO DATE 01/31/2004

# CASES	AMOUNT	
111,520	\$5,740,092.07	-
30 535	\$771 - 470 - 30	
	,	
1,576	\$12,757.75	
Ó	\$0.00	
<u>=</u>	=======================================	
	\$6,512,954.12	
	===== =====	==
67,926	\$3,643,445.74-	
1,729		
14		
33		
28		
28		
78	\$4,125.00	
	4	
170	\$141.88-	
0.51	614 000 00	
	• •	
	· ·	
	\$1,756,411.84	
	111,520 30,535 13 1,576 0 = 67,926 1,729 14 33 28 28 11,954 193 382 78 75 170 251 44 5,692 1,231 232 13 158 0	111,520 \$5,740,092.07 30,535 \$771,470.30

ENF 525U

LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES CLASS I ACTIVITY REPORT

PAGE:

DATE: 02/02/2004

AGING OF OUTSTANDING CASES FROM CITATION DATE

COLLECTIONS WITH AGENCY: CURRENT 1 - 30 DAYS 31 - 90 DAYS 91 - 180 DAYS 181 - 365 DAYS OVER ONE YEAR	184 197 499 880 1,747 18,381	\$11,150.00 \$12,950.00 \$31,000.00 \$64,875.00 \$140,937.50 \$1,296,090.34
COLLECTIONS WITH DEPT OF R 1 - 90 DAYS 91 - 180 DAYS 181 - 365 DAYS OVER ONE YEAR	EVENUE: 0 0 0 2,501	\$0.00 \$0.00 \$0.00 \$199,184.00
AMOUNT UNDER PROTEST: 1 - 180 DAYS 181 - 365 DAYS OVER ONE YEAR	0 0 3	\$0.00 \$0.00 \$225.00
** TOTAL AGING AGING OF OUTSTA	24,392 NDING CASES FROM F	\$1,756,411.84
PREHEARING 0 - 90 DAYS 91 - 180 DAYS 181 - 270 DAYS 271 - 365 DAYS OVER ONE YEAR	1,028 371 1,002 1,096 427 20,468	\$63,000.00 \$29,740.00 \$75,170.00 \$90,812.50 \$42,002.00 \$1,455,687.34
** TOTAL AGING	24,392	\$1,756,411.84



Dwight Landreneau Secretary Department of Wildlife & Fisheries Post Office Box 98000 Baton Rouge, LA 70898-9000 (225) 765-2800 Kathleen Babineaux Blanco Governor

2004-015

1/27/04

L.W.F.C. AMENDS AGENDA FOR FEBRUARY MEETING

The Louisiana Wildlife and Fisheries Commission announced the addition of another item to their February meeting agenda. The meeting will be held on February 5 at 10:00 a.m. at the LDWF Headquarters building in Baton Rouge. The new agenda for the meeting is as follows:

- 1. Roll Call
- 2. Approval of Minutes of January 8, 2004
- 3. Commission Special Announcements
- 4. Recognition of Angela Capella for Receiving Outstanding Service to Informal Science Education Award by Louisiana Science Teachers Association
- 5. Enforcement & Aviation Reports/January
- 6. Notice of Intent Shark Harvest Regulations
- 7. Presentation of Stock Assessments for Black Drum, Striped Mullet, Southern Flounder and Sheepshead
- 8. Derelict Crab Trap Removal Program Presentation
- 9. Hunter Safety Report
- 10. Public Information Update Presentation
- 11. Set June 2004 Meeting Date
- 12. Public Comments
- 13. Adjournment

EDITORS: For more information, contact Thomas Gresham at 225/765-2923 (gresham_tp@wlf.state.la.us).

January 27, 2004

NEWS RELEASE

APPROVED9

REVISED AGENDA FOR COMMISSION MEETING

The next regular public board meeting has been scheduled by the Commission for 10:00 A.M. on Thursday, February 5, 2004, at the Wildlife and Fisheries Building, 2000 Quail Drive, Baton Rouge, LA.

- 1. Roll Call
- 2. Approval of Minutes of January 8, 2004
- 3. Commission Special Announcements
- 4. Recognition of Angela Capella for Receiving Outstanding Service to Informal Science Education Award by Louisiana Science Teachers Association
 - 5. Enforcement & Aviation Reports/January
 - 6. Notice of Intent Shark Harvest Regulations
- 7. Presentation of Stock Assessments for Black Drum, Striped Mullet, Southern Flounder and Sheepshead
 - 8. Derelict Crab Trap Removal Program Presentation
 - 9. Hunter Safety Report
 - 10. Public Information Update Presentation
 - 11. Set June 2004 Meeting Date
 - 12. Public Comments
 - 13. Adjournment

Hawkins, Susan

From:

Roussel, John E

Sent:

300

Tuesday, January 27, 2004 9:49 AM

To: Cc: Foote, Karen Hawkins, Susan

Subject:

RE: Commission addition

OK

----Original Message----

From: Foote, Karen

Sent: Tuesday, January 27, 2004 9:03 AM

To: Roussel, John E Cc: Hawkins, Susan

Subject: Commission addition

With your ok, I'd like to request an addition to the agenda.

Derelict Crab Trap Program presentation- Vince Guillory



Dwight Landreneau Secretary Department of Wildlife & Fisheries Post Office Box 98000 Baton Rouge, LA 70898-9000 (225) 765-2800 Kathleen Babineaux Blanco Governor

2004-014

1/26/04

AGENDA ANNOUNCED FOR FEBRUARY MEETING OF L.W.F.C.

The next regular public board meeting for the Louisiana Wildlife and Fisheries Commission has been scheduled for 10:00 A.M. on Thursday, February 5, 2004, at the Wildlife and Fisheries Building, 2000 Quail Drive, Baton Rouge, LA. The agenda for the meeting will be as follows:

- 1. Roll Call
- 2. Approval of Minutes of January 8, 2004
- 3. Commission Special Announcements
- 4. Recognition of Angela Capella for Receiving Outstanding Service to Informal Science Education Award by Louisiana Science Teachers Association
- 5. Enforcement & Aviation Reports/January
- 6. Notice of Intent Shark Harvest Regulations
- 7. Presentation of Stock Assessments for Black Drum, Striped Mullet, Southern Flounder and Sheepshead
- 8. Hunter Safety Report
- 9. Public Information Update Presentation
- 10. Set June 2004 Meeting Date
- 11. Public Comments
- 12. Adjournment

EDITORS: For more information, contact Thomas Gresham at 225/765-2923 (gresham_tp@wlf.state.la.us).



Dwight Landreneau Secretary Department of Wildlife & Fisheries
Post Office Box 98000
Baton Rouge, LA 70898-9000
(225) 765-2800

January 26, 2004

Kathleen Babineaux Blanco Governor

MEMORANDUM

TO:

Chairman and Members of Commission

FROM:

Dwight Landreneau, Secretary

SUBJECT: February Commission Meeting Agenda

The next regular Commission meeting will be held at 10:00 A.M. on Thursday, February 5, 2004, in the Louisiana Room at the Wildlife and Fisheries Building, 2000 Quail Drive, Baton Rouge, LA.

The following items will be discussed:

- 1. Roll Càll
- 2. Approval of Minutes of January 8, 2004
- 3. Commission Special Announcements
- 4. Recognition of Angela Capella for Receiving Outstanding Service to Informal Science Education Award by Louisiana Science Teachers Association

WINTON VIDRINE

5. Enforcement & Aviation Reports/January

OFFICE OF FISHERIES

- 6. Notice of Intent Shark Harvest Regulations
- 7. Presentation of Stock Assessments for Black Drum, Striped Mullet, Southern Flounder and Sheepshead

Page 2 Commission Meeting January 26, 2004

OFFICE OF WILDLIFE

8. Hunter Safety Report

PUBLIC INFORMATION

- 9. Public Information Update Presentation
- 10. Set June 2004 Meeting Date
- 11. Public Comments

DL:sch

cc: Janice Lansing
Phil Bowman
John Roussel
Don Puckett
Dennis Kropog
Ewell Smith
Division Administrators
Marianne Burke

January 26, 2004

NEWS RELEASE

APPROVED:

AGENDA FOR COMMISSION MEETING

The next regular public board meeting has been scheduled by the Commission for 10:00 A.M. on Thursday, February 5, 2004, at the Wildlife and Fisheries Building, 2000 Quail Drive, Baton Rouge, LA.

- 1. Roll Call
- 2. Approval of Minutes of January 8, 2004
- 3. Commission Special Announcements
- 4. Recognition of Angela Capella for Receiving Outstanding Service to Informal Science Education Award by Louisiana Science Teachers Association
 - 5. Enforcement & Aviation Reports/January
 - 6. Notice of Intent Shark Harvest Regulations
- 7. Presentation of Stock Assessments for Black Drum, Striped Mullet, Southern Flounder and Sheepshead
 - 8. Hunter Safety Report
 - 9. Public Information Update Presentation
 - 10. Set June 2004 Meeting Date
 - 11. Public Comments
 - 12. Adjournment

C O V E R



FAX

To:

Bill Busbice

Fax #:

337-984-5333

Subject:

Agenda

Date:

January 21, 2004

Pages:

3, including this cover sheet.

COMMENTS:

Please let me know if the attached agenda for the February Commission Meeting is okay. Thanks.

From the desk of...

Susan Hawkins

La. Dept. Of Wildlife & Fisheries P. O. Box 98000 Baton Rouge, LA 70898-9000

> 225-765-2806 Fax: 225-765-0948

, 2004

MEMORANDUM

TO: Chairman and Members of Commission

FROM: Dwight Landreneau, Secretary

SUBJECT: February Commission Meeting Agenda

The next regular Commission meeting will be held at 10:00 A.M. on Thursday, February 5, 2004, in the Louisiana Room at the Wildlife and Fisheries Building, 2000 Quail Drive, Baton Rouge, LA.

The following items will be discussed:

- 1. Roll Call
- 2. Approval of Minutes of January 8, 2004
- 3. Commission Special Announcements
- 4. Recognition of Angela Capella for Receiving Outstanding Service to Informal Science Education Award by Louisiana Science Teachers Association

WINTON VIDRINE

5. Enforcement & Aviation Reports/January

OFFICE OF FISHERIES

- 6. Notice of Intent Shark Harvest Regulations
- 7. Presentation of Stock Assessments for Black Drum, Striped Mullet, Southern Flounder and Sheepshead

Page 2 Commission Meeting , 2004

OFFICE OF WILDLIFE

8. Hunter Safety Report

PUBLIC INFORMATION

- 9. Public Information Update Presentation
- 10. Set June 2004 Meeting Date
- 11. Public Comments

JHJ:sch

cc: Janice Lansing
Phil Bowman
John Roussel
Don Puckett
Dennis Kropog
Ewell Smith
Division Administrators
Marianne Burke



Department of Wildlife & Fisheries
Post Office Box 98000
Baton Rouge, LA 70898-9000
(225) 765-2800
January 5, 2004

M.J. "Mike" Foster, Jr.
Governor

MEMORANDUM

TO:

Undersecretary, Assistant Secretary-Office of Wildlife

and Assistant Secretary-Office of Easteries

FROM:

James H. Jenkins, Jr., Secretary

SUBJECT: Commission Meeting Agenda - February 5, 2004

Please write on the bottom of this memo and return to Susan Hawkins by Friday, January 16th any agenda items your office may have for the Thursday, February 5th Commission Meeting to be held in Baton Rouge, Louisiana, at the Wildlife and Fisheries Building, 2000 Quail Drive. This meeting will begin at 10:00 a.m. on February 5th. If you do not have anything for the agenda, please return memo and indicate so on the bottom of this memo. We cannot add anything to the agenda that requires commission action after we have published the agenda in the state journal.

Resolutions and Notices of Intent should be included with the list of items to be placed on the agenda. Thank you for your cooperation!

JHJ/sch

cc: Commissioners
Don Puckett
Winton Vidrine
Tommy Prickett V
Bennie Fontenot
Karen Foote
Wynnette Kees
Brandt Savoie

Ewell Smith Marianne Burke Division Report - The Stuyes Henty Lopety Recognition - Anythe Copilla mortes of Street Getstending Service to Informal Science Education award by La. Skience Teachers Assoc.



Department of Wildlife & Fisheries
Post Office Box 98000
Baton Rouge, LA 70898-9000
(225) 765-2800
January 5, 2004

M.J. "Mike" Foster, Jr.
Governor

Public Information update
presentation.

M. July 1-15-04

MEMORANDUM

TO:

Undersecretary, Assistant Secretary-Office of Wildlife

and Assistant Secretary-Office of Masheries

FROM:

James H. Jenkins, Jr., Secretary

SUBJECT: Commission Meeting Agenda - February 5, 2004

Please write on the bottom of this memo and return to Susan Hawkins by Friday, January 16th any agenda items your office may have for the Thursday, February 5th Commission Meeting to be held in Baton Rouge, Louisiana, at the Wildlife and Fisheries Building, 2000 Quail Drive. This meeting will begin at 10:00 a.m. on February 5th. If you do not have anything for the agenda, please return memo and indicate so on the bottom of this memo. We cannot add anything to the agenda that requires commission action after we have published the agenda in the state journal.

Resolutions and Notices of Intent should be included with the list of items to be placed on the agenda. Thank you for your cooperation!

JHJ/sch

cc: Commissioners

Don Puckett
Winton Vidrine
Tommy Prickett
Bennie Fontenot

Karen Foote
Wynnette Kees
Brandt Savoie
Ewell Smith

Marianne Burke

An Equal Opportunity Employer

Hawkins, Susan

From:

Roussel, John E

Sent:

Thursday, January 08, 2004 4:19 PM

To:

Foote, Karen

Cc:

Pausina, Randy; Shepard, Joey; Hawkins, Susan; Porch, Pat

Subject:

RE: Feb 2004 Commission agenda items

OK

----Original Message----

From: Foote, Karen

Sent: Thursday, January 08, 2004 8:28 AM

To: Roussel, John E

Cc: Pausina, Randy; Shepard, Joey; Hawkins, Susan; Porch, Pat

Subject: Feb 2004 Commission agenda items

With your approval, Marine Fisheries requests that we place the following items on the February agenda:

Notice of Intent- Shark Harvest Regulations - Randy Pausina

(related to new federal regs on bag for certain species)

Presentation of Stock Assessments for Black Drum, Striped Mullet, Southern Flounder and Sheepshead- Joe Shepard



Department of Wildlife & Fisheries Post Office Box 98000 Baton Rouge, LA 70898-9000 (225) 765-2800 January 5, 2004

M.J. "Mike" Foster, Jr. Governor

MEMORANDUM

TO:

Undersecretary, Assistant Secretary-Office of Wildlife

and Assistant Secretary-Office of Easteries

FROM:

James H. Jenkins, Jr., Secretary

Commission Meeting Agenda - February 5, 2004 SUBJECT:

Please write on the bottom of this memo and return to Susan Hawkins by Friday, January 16th any agenda items your office may have for the Thursday, February 5th Commission Meeting to be held in Baton Rouge, Louisiana, at the Wildlife and Fisheries Building, 2000 Quail Drive. This meeting will begin at 10:00 a.m. on February 5th. If you do not have anything for the agenda, please return memo and indicate so on the bottom of this memo. We cannot add anything to the agenda that requires commission action after we have published the agenda in the state journal.

Resolutions and Notices of Intent should be included with the list of items to be placed on the agenda. Thank you for your cooperation!

JHJ/sch

cc: Commissioners

Don Puckett Winton Vidrine

Tommy Prickett Bennie Fontenot V

Karen Foote

Wynnette Kees

Brandt Savoie

Ewell Smith

Marianne Burke

I have no orenda itema) from the Chiland Fish Diving. I hash

C. Solm Koussel

An Equal Opportunity Employer



Department of Wildlife & Fisheries
Post Office Box 98000
Baton Rouge, LA 70898-9000
(225) 765-2800
January 5, 2004

M.J. "Mike" Foster, Jr.
Governor

MEMORANDUM

TO:

Undersecretary, Assistant Secretary-Office of Wildlife

and Assistant Secretary-Office of Fasheries

FROM:

James H. Jenkins, Jr., Secretary

SUBJECT: Commission Meeting Agenda - February 5, 2004

Please write on the bottom of this memo and return to Susan Hawkins by Friday, January 16th any agenda items your office may have for the Thursday, February 5th Commission Meeting to be held in Baton Rouge, Louisiana, at the Wildlife and Fisheries Building, 2000 Quail Drive. This meeting will begin at 10:00 a.m. on February 5th. If you do not have anything for the agenda, please return memo and indicate so on the bottom of this memo. We cannot add anything to the agenda that requires commission action after we have published the agenda in the state journal.

Resolutions and Notices of Intent should be included with the list of items to be placed on the agenda. Thank you for your cooperation!

JHJ/sch

cc: Commissioners
Don Puckett
Winton Vidrine
Tommy Prickett
Bennie Fontenot
Karen Foote
Wynnette Kees
Brandt Savoie
Ewell Smith
Marianne Burke

More



Department of Wildlife & Fisheries
Post Office Box 98000
Baton Rouge, LA 70898-9000
(225) 765-2800
January 5, 2004

M.J. "Mike" Foster, Jr.
Governor

MEMORANDUM

TO:

Undersecretary, Assistant Secretary-Office of Wildlife

and Assistant Secretary-Office of Fasheries

FROM:

James H. Jenkins, Jr., Secretary

SUBJECT: Commission Meeting Agenda - February 5, 2004

Please write on the bottom of this memo and return to Susan Hawkins by Friday, January 16th any agenda items your office may have for the Thursday, February 5th Commission Meeting to be held in Baton Rouge, Louisiana, at the Wildlife and Fisheries Building, 2000 Quail Drive. This meeting will begin at 10:00 a.m. on February 5th. If you do not have anything for the agenda, please return memo and indicate so on the bottom of this memo. We cannot add anything to the agenda that requires commission action after we have published the agenda in the state journal.

Resolutions and Notices of Intent should be included with the list of items to be placed on the agenda. Thank you for your cooperation!

JHJ/sch

cc: Commissioners
Don Puckett
Winton Vidrine
Tommy Prickett
Bennie Fontenot
Karen Foote
Wynnette Kees
Brandt Savoie
Ewell Smith
Marianne Burke